

The National Locksmith®

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June 2004
Volume 75
No. 6
\$7.00

A Closer Look
At
Door Hardware



Expect Quality in Demand III

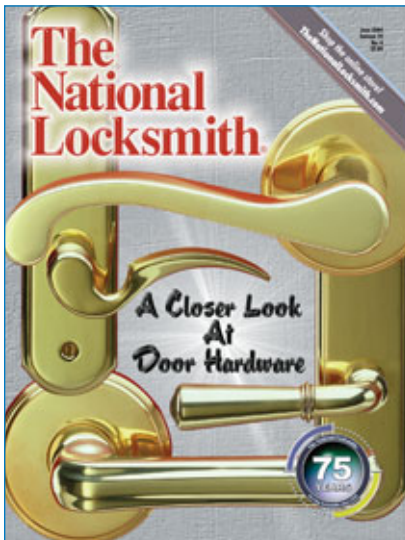


Pictured from left to right starting at the top:
747XU, 1200CMB, 123SHARK, 1200PCH, 9120RM,
KEKAB-DL65, KEP-15-301, KEKAB-T30, 511, KEKAB-30,
CO-18, AW-99, CO-61, AKK-99, CO-79,
LHR-100, CGIT-10, SUT-14, FAL-10 TRU-99,
USA-10, HPG-10, COLOR-35, TLP-CMOD-B, NDPK-100,
MK-CD, HT-MC01, CS-CD,
COA-22, HAC, LC-1.

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On The Cover...



In the world of door hardware and security, new improvements to mechanical as well as electronic hardware is constantly evolving.

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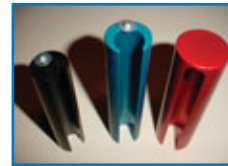
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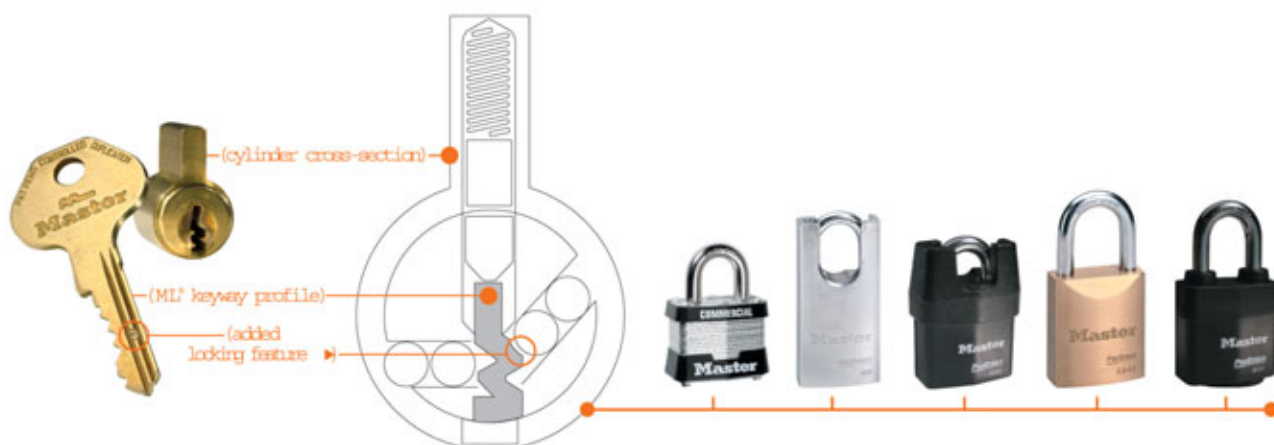
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Cut costs without downsizing security.



The new **ML® key control cylinder system takes a bite out of crime. Not your budget.**

Key control. Everyone wants it, but not everyone can afford it. Until now. Master Lock's ML® system makes key control security a cost-effective possibility for virtually any business, thanks to an innovative added cylinder locking feature. And with its proprietary, restricted key blank designs, Master Lock's ML® system prevents unauthorized personnel from obtaining keys. Plus the ML® cylinder fits into almost any Master Lock padlock. Now you can offer greater security to your commercial customers, and lock them in to repeat sales from you. For more information, contact your participating Master Lock distributor or log on to www.masterlock.com, or call us at 1-800-308-9242.

COMMENTARY



Locksmiths In The News... And In Iraq

From the Corpus Christi Caller-Times

Please be careful out there!

Two men were killed and four passengers critically injured in a head-on collision at 6:35 a.m. Friday on Farm-to-Market Road 534 about three miles south of Lagarto in Live Oak County, police said.

Tomas Aguilar, 25, of Orange Grove, died at the scene after the 1992 Chevrolet Lumina he was driving northbound on the wrong side of the road collided with a 1996 Chevrolet Suburban, Department of Public Safety officials said. Aguilar was employed with Agua Dulce Grain.

The driver of the Suburban, Charles F. McClenney Jr., 41, a locksmith from Corpus Christi, died at Christus Spohn Hospital Memorial at about 10 a.m.

Both vehicles spun off the road after impact, landing in ditches, officials said. Both men were wearing seatbelts, according to reports.

Let them eat cake!

STOW - Two men are facing a slew of charges, ranging from larceny to drug possession, after allegedly crashing a house party on Nyra Road Saturday morning. One of them was arrested and placed in a holding cell.

"When he was placed in his cell, he became out of control and continually kicked and rammed against the cell door to the point where we were not able to open the door to feed him the next day and had to call a locksmith who worked for quite a few hours to get the door opened," Chief Joseph Rebello said. "He was then placed in an adjoining cell, and he did attempt to break that door also."

Make me a judge people, and I would have let this guy go hungry. No locksmith needed.

CBS 2's Brendan Keefe Heads To Iraq

NEW YORK (CBS) WCBS-TV's Brendan Keefe just arrived in Kuwait and is poised to enter Iraq with a group of local Reservists to bring CBS 2 viewers a first-hand look at their experience.

Embedded with a group of National Reservists from the 854th Engineer Battalion-several from the New York area-Keefe will bring their stories home. His first report live from the Iraqi border airs on Thursday, April 29th at 11:00 PM only on CBS 2.

Keefe interviewed some of the local Reservists prior to their journey to Iraq and learned about their lives and their families. The group includes a locksmith, a bookseller, a waitress and a retired Vietnam Veteran. He will follow the troops through their extensive training and the conflict area.

As I wrote in an earlier issue, we have brother and sister locksmiths away from their jobs and families serving the US in Afghanistan, Iraq and other far away places. While political opinions about the war may vary, there is no room for dissent when it comes to supporting our troops.

As I learn about locksmiths serving in the military placed in harm's way, I make a special effort to mention it to you in this space. When I see that word "locksmith" in an Iraq article, it reminds me that we're not talking about "an army of one" anymore. We're talking about an army made up of people like you and me, like our brothers and sisters. These are people who come from all walks of life who are serving their country.

We owe them a debt of gratitude regardless of our stance on Iraq. We want to thank all those waitresses, and book sellers for their service. We also want to remember and thank the locksmiths.

Marc Goldberg



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Marc Goldberg
Publisher

Mango's Message

It's a Hoax! Or is it?

Dear Mr. Mango:

It's apparent you did not verify the letter from "Sgt. K. Jorge" before printing it in the March issue. If you did, you should call her back. The letter is a hoax. It's an urban legend. Exact copies can be found all over the Internet. It has been repeated so many times that the City of Pasadena has added a link to its Web site debunking the myth and apologizing for Sgt. Kathryn Jorge's original message to a colleague being misinterpreted and widely spread.

Here's a key quote from the city's Web site: "As of today, detectives have contacted several large hotels and computer companies using plastic card key technology and they assure us that personal information, especially credit card information, is not included on their key cards."

A quick call to the Pasadena Police Department could have stopped this urban legend from gaining steam. In a few months, I imagine we'll all be getting another round of e-mail from someone pointing out that it MUST be true because it was in The National Locksmith. You do your readers a disservice when you publish information purporting to show security flaws in a system without first verifying that the information is true.

Eddie Bernard, Tennessee

Hotel Key Card Update

The following information comes from the Pasadena Police Department in response to numerous inquiries regarding hotel card keys containing personal information.

Detective Sergeant Kathryn Jorge of the Pasadena Police Department received information from a group of Southern California fraud detectives who had formed a fraud investigations network through a local Internet carrier. One of the members of this group from another San Gabriel Valley agency reported that in an investigation that he was personally involved in, he came across a plastic hotel card key from a major hotel that had personal information that could potentially lead to identify theft and fraud. This information included names, addresses, length of stay, and credit card numbers. This detective took the precautionary measure of notifying the detectives in the network prior to seeing if this practice was standard in the industry.

As the investigation into this potential fraud risk continued, this information was shared with other members of the Pasadena Police Department and personnel chose to share this information with others before we could correctly evaluate the risk. This has caused a chain reaction of probably thousands of people being given this information before the risk was evaluated thoroughly.

As of today, detectives have contacted several large hotels and computer companies using plastic card key technology and they assure us that personal information, especially credit card information, is not included on their key cards. The one incident referred to appears to be several years old, and with today's newer technology, it would appear that no hotels engage in the practice of storing personal information on key cards. There was never the intent of the Pasadena Police Department to forward this information to others before the risk was evaluated.

Janet A. Pope

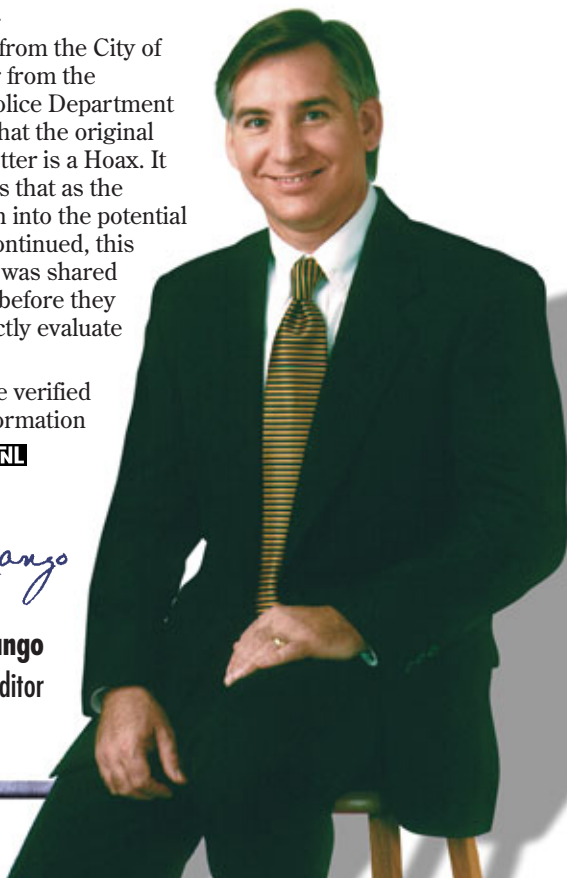
Adjutant to the Chief of Police/Public Information Official

Mango's Facts:

- Personal information *can* be encrypted on Hotel swipe cards, even with today's technology. That's not saying it is.
- Encrypted personal information *can* be retrieved from Hotel swipe cards, even with today's technology. That's not saying it is.
- Personal information *has* been encrypted on Hotel swipe cards in the past. The above letter verifies that.
- Nowhere from the City of Pasadena or from the Pasadena Police Department does it say that the original published letter is a Hoax. It clearly states that as the investigation into the potential fraud risk continued, this information was shared with others before they could correctly evaluate the risk.
- Yes, I have verified that this information is true. **TNL**



Greg Mango
Editor



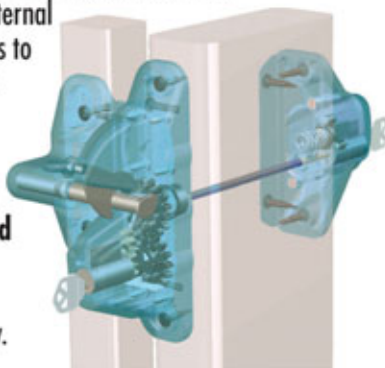


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It uses a standard 6-pin "key-in-knob" lock cylinder. This cylinder **can be keyed-alike, maison-keyed, master-keyed or replaced with high-security cylinder systems** such as Abloy, Assa, Kaba, Medeco, Mul-T-Lock or Schlage Primus...to name a few.



- Opens & locks from both sides
- Key-alike convenience (6-pin)
- Can be master-keyed
- Fits metal, wood & vinyl gates
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"Hinged" model on vending machine

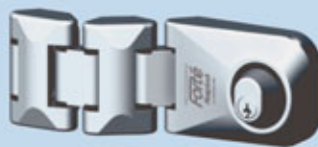
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Single-Hinge model



Double-Hinge model

Forté HaspLocks (3 models) are designed for all types of storefront, door, gate and storage locking, either as add-on security for existing locks or as primary locks.



Face Mount model



Side Mount model

Forté PullBolts also use a standard 6-pin "key-in-knob" style lock cylinder which can be keyed alike, master-keyed, maison-keyed or replaced with high security systems such as Abloy, Assa, Kaba, Medeco, Mul-T-Lock, Schlage Primus...

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Circle 210 on Rapid Reply





LETTERS

Increase Your Transponder Business

I guess it took a 2x4 hit on the head to bring a new source of business my way, which I wish to share with fellow locksmiths, especially those working with transponders. In the course of ten days this fall, I received calls from two people who were having remote starters installed in cars at a local franchise. They were informed that they needed another key to be made and programmed into their vehicles to make the starter operate. The local Ford dealer's reputation is not spotless, and their prices are sky high.

They were telling potential customers that they were the only source for service. My new customers were very pleasantly surprised to find that not only did I stock the proper key blanks, but I also had the equipment to program them, and at a fraction of the dealers quoted prices. I next wrote letters to the two major franchises locally, which are installing remote starters, outlining my service and availability. Within three weeks my transponder key business has increased by fifty percent. If you deal in transponder keys and have the necessary hardware, I encourage you to take this very easy step to increase your business.

*David A. Keenan
Vermont*

Making Life A Little Bit Easier

Over the years I have been fortunate to have a number of my tips published, and in the last two

months I have found my tips on paper once again. It gives me great satisfaction to know that in some small way I am contributing to an industry that has been very good to me. I appreciate the way manufacturers have applauded our efforts by donating the various prizes. Needless to say, those prizes have enhanced our knowledge base, (in the case of the Tech-Train Videos) and our bottom line (in the case of the LaGard Combo lock).

I have found that the information that I get from the Technitips column is something that I return to year after year, as I put it to practical use on a daily basis. Thanks Jake, and thank you all for making it a little bit easier for those of use working in this industry.

*Larry Kanzer
Pennsylvania*

Warranty Issue

I noticed in a recent issue of your magazine that an award was given to a reader that submitted a suggestion that when one replaces a worn/failed door closer, he can return the failed closer and get it replaced or repaired under the warranty of the manufacturer. This closer subsequently can be placed into the inventory of the locksmith/installer.

In my view, the warranty on the closer belongs to the person/business that purchased the closer in the first instance. To take that warranty and convert it to your personal gain is unethical, and bordering on illegal. The fact that

this suggestion was printed given an award puts into question your magazine's ethics.

The business or original purchaser should be advised on installation that there might be some warranty on the old closer and that if warranty covers this closer that he will receive a credit for the closer, or an agreed upon percentage of value of the closer. How would we view an employee of our business that used this same suggested method and rather than turning it over to the business kept it for himself to sell at a later date?

In this rapidly changing world we are concerned about the locksmith profession and how we have to adapt to survive. Well, I suggest that one of the things that we do not change to survive is our ethics.

*D.C. Cook
Russell, Manitoba, Canada*

TNL



E-mail Your Views:
natllock@aol.com

Please include your first and last name.

The National Locksmith

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Attn: Editor

The National Locksmith is interested in your views. We do reserve the right to edit for clarity and length.



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DOOR HARDWARE REVIEW



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An audit trail of 3,000 events is transferred to your PC via the infrared data transfer function of various Palm™ compatible PDAs.

Schlage King Cobra Locksets and Narrow Stile Trims

IR Security & Safety's Electronic Access Control Division (EACD) has expanded its line of manually programmable access control locks and trims with



the new Schlage King Cobra series, which features iButton ports, 12-button keypads and standard builder's cylinders. Comparably priced to conventional mechanical and electronic numerical code locks, the Schlage King Cobra locks store up to 100 codes and allow administrators to easily add or delete users in seconds. Models are available for use with a wide range of doors, latches and exit devices, including narrow stile aluminum doors.

Because codes can be easily and quickly added or deleted, security can be enhanced by increasing the

frequency with which codes are changed, while also cutting down on the labor time and cost to accomplish this. This translates into a lower cost of ownership and reduced liabilities. The moment an employee who knows an access code leaves the company, security is at risk if steps to prevent future access are not taken. In addition to the standard King Cobra, the narrow stile King Cobra provides the opportunity to add electronic access control to a wide range of existing aluminum doors.

Millions of existing aluminum narrow stile doors can now benefit from a security and convenience upgrade. The narrow stile King Cobra works on aluminum doors with Adams Rite type latches and bolts as well as many types of exit devices. A selection of Ives by Schlage offset pulls also complement the function of the trim. The King Cobra locks have an architecturally appealing design, can withstand the elements and are available in five finishes and 2 lever styles. As a result, they complement any décor. The new locks operate on four off-the-shelf, AA alkaline batteries, which provide 80,000-plus cycles or approximately three years life.

Kwikset Unveils Venetian Bronze Finish

Venetian Bronze is the latest alternative door hardware finish from Kwikset; it features a rich auburn hue that is handcrafted to reveal bright copper highlights on the edges and corners of the door hardware. The new Venetian Bronze finish joins other recent warm finish introductions from Kwikset, such as Antique Nickel and Satin Nickel. The Venetian Bronze finish will be available on products in the Kwikset UltraMax Security line including the Chelsea Handleset, Arlington Handleset, 980 Grade-One Deadbolt, 780 Deadbolt, Commonwealth Lever and Hancock Knob.

The finish is expected to be available on all Kwikset UltraMax Security products by the end of 2004. The Venetian Bronze finish will carry a lifetime finish warranty.



S. Parker Hardware Door Closer

Building owners/facility managers as well as architects of office buildings, retail stores, commercial buildings and schools can now install ADA compliant, size 1 through 6, power adjustable door closers in their buildings. Newly available from S. Parker Hardware, this UL listed door closer is in



compliance with ANSI A156.4, Grade 1. It also conforms to the Americans with Disabilities Act and ANSI A117.1 Specifications for marking buildings and facilities accessible to and usable by the physically disabled.

Specified as Series 441BC, this multi-size, full feature door-closer is constructed of cast iron. It is man-

Continued on page 14

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Select continuous gear hinges help building designers and owners avoid maintenance costs and headaches for life. More than 1 million Select Hinges have been proven in real-world applications just like your own schools, offices, airports, public buildings, etc. Independent lab tests on an FRP door confirm that Select continuous gear hinges will perform well over 10,000,000 cycles, more than some building entrances see in a lifetime. Select Hinges are guaranteed for the life of your entrance.

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Hinge design tested for

10,000,000
cycles ... and counting.



bility. Select specializes in producing only continuous gear hinges, and provides the industry's fastest delivery time.

IR Standard 996L Breakaway Lever Trim Trim for Von Duprin Exit Devices

A new 996L breakaway lever trim that matches the style of existing Von Duprin lever trim will be provided as standard on Von Duprin 98/99 Series exit devices. The breakaway lever trim significantly reduces damage from vandalism and abuse and is fully ADA-compliant. The 996L trim blends two successful Von Duprin designs, combining the 994L breakaway lever trim with the escutcheon plate of the 992L trim style. The breakaway design allows the lever to break away and drop to the 90° "down" position when it is abused or

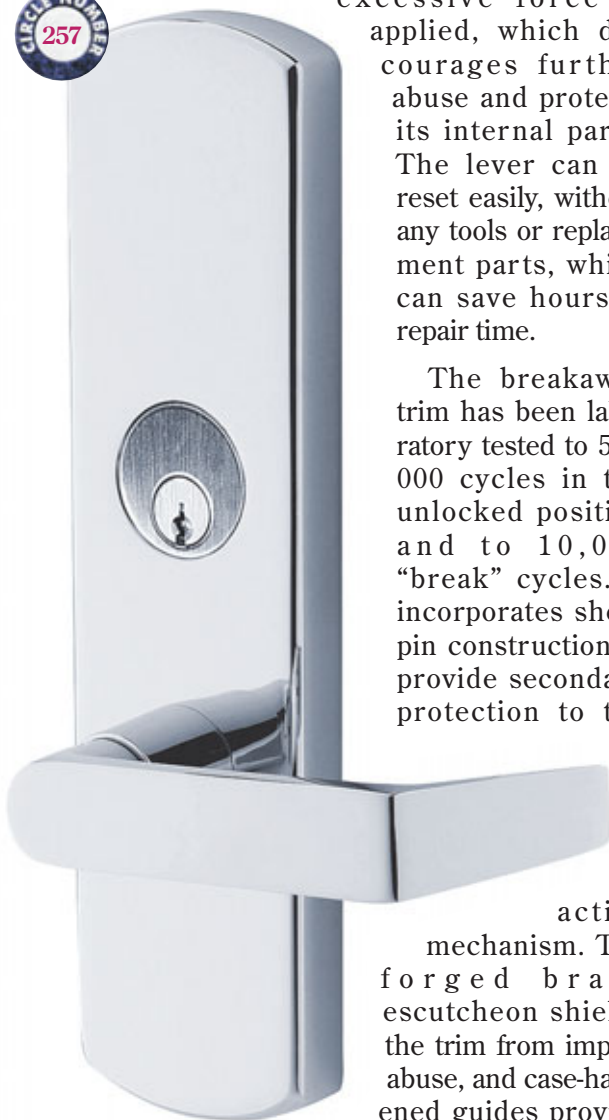
excessive force is applied, which discourages further abuse and protects its internal parts. The lever can be reset easily, without any tools or replacement parts, which can save hours of repair time.

The breakaway trim has been laboratory tested to 500,000 cycles in the unlocked position and to 10,000 "break" cycles. It incorporates shear pin construction to provide secondary protection to the

active mechanism. The forged brass escutcheon shields the trim from impact abuse, and case-hardened guides provide greater durability. The

new 996L trim allows the breakaway function to be added to areas where the earlier trim design had been used for years. The 994L and 992L trims will continue to be offered as optional trims and must be specified when needed.

Continued on page 18



hes

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1006 series



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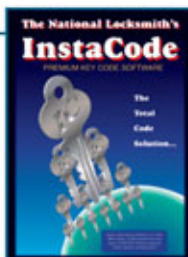
(with Master Key Module)

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Optional master key module allows you to design a grand master system and send it right to your electronic key machine • Add your own code series • Add your own code cards • Cad cam graphics of keys show Depth & Space • More vehicle openings • New code series

Additional features...

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Dave McOmie Safe Book Collection on CD

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(NSO members call for special pricing)

Includes: • **The National Locksmith** Guide to Safe Opening, Volumes 1,2,3,4, and 5 • **The National Locksmith** Guide to High Security Safes, Volume One • **The National Locksmith** Guide to High Security Safes, Volume Two • Dave McOmie's Penetration Party • Dave McOmie on Vault Doors, Volume One: Bank Vaults • Dave McOmie on Vault Doors, Volume Two: Plate and Fire Vaults • Dave McOmie on Gun Safes



The National Locksmith® on CD

Item #TNL-CD2 • \$99.00 (1988-2002)

Item #TNL-CD4 • \$25.00 (2002)

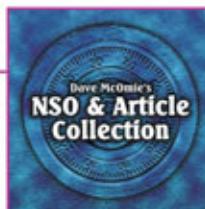
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Dave McOmie NSO & Article Collection on CD

Item #DMCD-2 • \$699.00

Includes: • Every NSO National Safeman newsletter since it began in 1992. Each newsletter features detailed safe and vault opening photos, drill points and procedures on a wide variety of safes from the normal to the very high security; • Every McOmie File published by the NSO which gives you all the known opening methods on virtually every important safe lock made, mechanical and electronic, with X-ray views; • Every article Dave has written for **The National Locksmith** from when he started in 1986 right up to 2000. (NSO members call for special pricing)



AutoEdge on CD

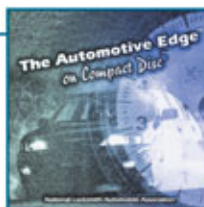
(Automotive Locksmith Software)

Item #AE-CD • \$125.00

This CD contains over 1,000 pages of automotive locksmith service. Techniques covered include code locations, lock and column disassembly, lockouts, and much more.

Shows you how to service domestic, foreign, and even high security vehicles with ease. All known key blanks are given, as are all details you would need to work on the vehicle.

As a special bonus, when you purchase the AutoEdge on CD-ROM, you'll also be enrolled FREE in the National Locksmith Automobile Association (NLAA). You will receive 12 monthly newsletters over the course of the next year. Each one covers an important vehicle from top to bottom.



15 Minute Safe Opening Technique

CD VERSION Item #JJ-CD1 • \$99.00

PRINT VERSION Item #JJ-1 • \$99.00

This book deals exclusively with round head lift out doors. Shows five ways to open a Major; three ways to find the Dog Pin on a Major; four ways to open a Star; four ways to open a LaGuard style round door. Also covered are: Bolt shear, side punching, drilling false gates, finding Dog Pins, 'blowing bolts' and drilling perfect scope holes. It's all here. All in one book. More ways to open more lift out doors than you ever thought possible. Over 100 specific photographs. Fifty clear illustrations. Dozens of specific drill points and a special and a special drill point locator, over 140 pages. Available in two formats, book or CD-ROM. Included are drill points for Diebold, Migh-T-Safe, Kingdome, Sentry, In-A-Floor and other round heads. Page after page, illustration after illustration — all designed to help make you money.



I Cores: Small Format

CD VERSION Item #ICSF-CD1 • \$55.00

PRINT VERSION Item #ICSF-1 • \$55.00

CD COMBO Item #CORES-CD • \$99.00

PRINT COMBO Item #CORES-2 • \$99.00

Everything you ever need to know about how to sell, service, install and troubleshoot interchangeable cores!

Chapters include: terminology, blanks, tools, removing cores from stubborn shells, decoding cores, pinning, record keeping, installing, planning a system, masterkeying, billing and pricing tips for success. You'll even receive a final exam to help and test your knowledge! This volume contains over 140 pages of priceless information, designed to make IC core work quick, easy and profitable! Available in two formats, book or CD-ROM.



Removable Cores: Large Format

CD VERSION Item #RCLF-CD1 • \$55.00

PRINT VERSION Item #RCLF-1 • \$55.00

CD COMBO Item #CORES-CD • \$99.00

PRINT COMBO Item #CORES-2 • \$99.00

"Removable Cores: Large Format" is packed with exploded views, photos, line art and various graphics, which will blow you away! Why worry about Sargent, Kaba, Schlage, CorbinRusswin, Medeco or Yale again? Get this book and have an up-to-date resource at your fingertips.

Within its covers are a multitude of pictures, charts, drawings, exploded views, diagrams, line art, clipart, comments, etc. that will aid the reader in understanding and in solving individual RC problems on your job site.



The National Locksmith Guide to Motorcycles

Vol. 1 CD #MOT-CD • \$99.00

Vol. 2 CD #MOT-CD2 • \$99.00

Vol. 3 CD #MOT-CD3 • \$99.00

Any 2 on CD #MOT-CD13 • \$149.00

All 3 on CD #MOT-CD12 • \$199.00

Vol. 1 PRINT #MOT-1 • \$99.00

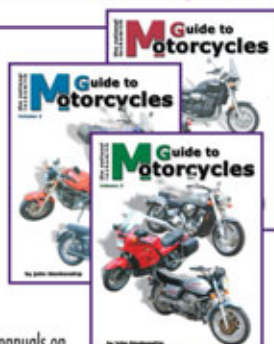
Vol. 2 PRINT #MOT-2 • \$99.00

Vol. 3 PRINT #MOT-3 • \$99.00

Any 2 in PRINT #MOT-13 • \$149.00

All 3 in PRINT #MOT-12 • \$199.00

For years locksmiths have begged for a comprehensive service manuals on motorcycles, and they are finally here! Covering a wide range of service procedures, you'll know everything a locksmith needs to know about each cycle. Plus, you'll get step by step photographs and instructions. Both volumes available in two formats, book or CD-ROM. Special pricing if you order both. If you have ever been frustrated by cycles made by the following manufacturers, you'll need these comprehensive books: • BMW • Buell • Harley-Davidson • Honda • Kawasaki • Neiman • Suzuki • Triumph • Yamaha • Zodi

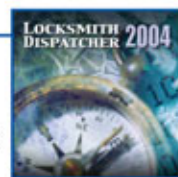


Locksmith Dispatcher 2004

Item #DISP2004 • \$750.00

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Cards & Keys

Item #CK-1 • \$149.00

Key blank cross reference & Code card production.

The first section of the program features a highly comprehensive database of key-blank reference numbers from 34 different manufacturers, 70,000 keys all cross indexed. This section of the program allows you to enter a key-blank reference number from a particular manufacturer and have this instantly converted to be the reference number of the brand of key-blank you use.

Print your own Code Cards with:

• Card Number • Space and Depth measurements in Metric or Imperial • Code series information (where applicable) • Cutter number • Key-blank number • Graphical representation of the key position in the jaw (allows easy positioning, and prevents mistakes) • Space & depth reference marks for needles.

The program comes pre-loaded with well over 700 cards, and also includes the ability to make your own cards should you require. Creates Punch Machine cards too!

Cards & Keys software includes BOTH card making ability and Key Companion software.

If you own InstaCode this module is already included.



Key Companion

Item #KC-1 • \$99.00

"What is that key-blank?" How often have you wasted time trying to work out a comparison from an old or obsolete key-blank? With Key Companion, you can perform key comparisons in a snap! And also you can just identify a key if you are not sure, as a visual, then Key Companion will make the comparison for you against that selection.

This easy to use program has been designed for any key cutting operation, and allows you to compare key-blank reference numbers from 34 manufacturers in a matter of seconds, on 70,000 blanks.

Key Companion is economical, easy to install and works with all versions of Microsoft Windows. Best of all, the program includes not only 70,000 key-blank cross references, but a picture of the blank and profiles as well so you can make sure your search has produced the correct result!

If you own InstaCode this module is already included.

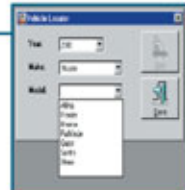


AutoSmart Advisor

Item #ASA-2002 • \$295.00

New features: Now updated to include the new models. Parts Locator... do reverse searches. Enter a part number and a list of vehicles appears organized by make, model and year. Color photos of parts... the Parts Locator not only shows you all the data, but also a color photo of the part. Service Help...now on selected models full service article with color photos and step by step instructions walk you completely through every job you might do on the car. Additional updates will contain ever more service articles and models.

AutoSmart Advisor™ software tells you every scrap of information about the vehicle, all parts, costs, labor times, calculates your charges automatically, and shows you how to do the job!



How To Jumpstart Your Locksmith Business or Ten Ways To Increase Your Shekel Intake

Item #JUMPSTART • \$19.95

Anyone who's ever read anything that Jake Jakubowski has written is familiar with his style... A little bit of humor, a little bit of "down home" wisdom and a whole lot of chutzpah. This book is just as witty, wry and pointed as everything else he had written. There's something in this book for the newbie, the seasoned 'smith and the person that's dreaming of the day when they can go out their own. "How To Jump Start Your Locksmith Business" is vintage Jake. His advice on money making, building your business and customer relations is timeless... At \$19.95, this CD version of Jake's newest book makes it one you can't afford to be without!



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CIRCLE NUMBER
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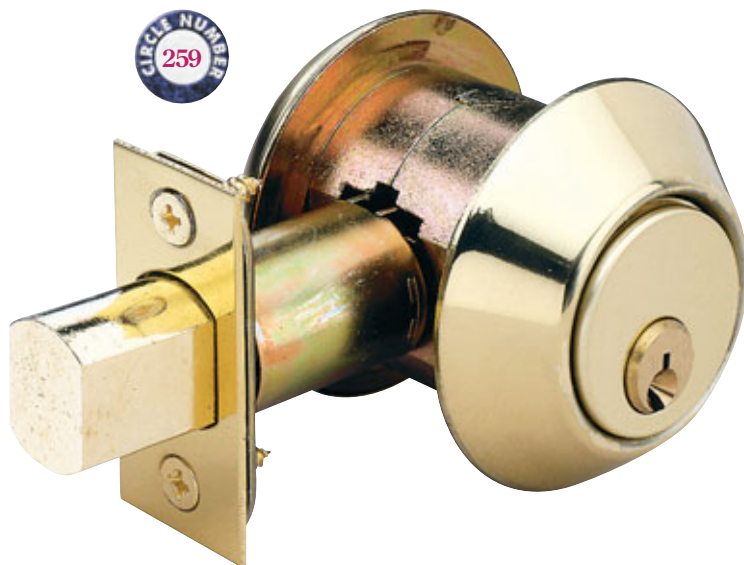
The Wolverine by GU Hardware

From G-U's New Breed of Security line, the Wolverine Shoot Bolt system automatically and independently engages with double-reinforced shoot bolts at the top and bottom on both active and inactive panels. The system is easily locked by turning the thumb turn 90 degrees or with key outside (on active panel), and by turning the key outside. Increased security and weather tightness in all of G-U's New Breed are insured in our state-of-the-art products with key-in-knob cylinder for easy re-keying, Schlage "C" keyways, a typical U.S. design with deadbolt above latch, and precision manufacturing that makes all G-U products superior.

Mortise Cylinder Deadbolts by Kaba Ilco

The Mortise Cylinder Deadbolt by Kaba Ilco Corp. offers more flexibility and options than any other replacement deadbolt available. This innovative deadbolt was designed with the locksmith in mind, any standard Mortise Cylinder with an Adams Rite style cam will fit without any modifications plus it's a snap to install. The Lori Deadbolt can be ordered without cylinders for use with almost any existing standard or high security mortise cylinder. It is also available in more than thirty keyways and numerous cylinder options including IC core, class-

Continued on page 21

CIRCLE NUMBER
259

room function, captive thumb turn, mortise thumb turn and dummy outside.

This versatile lock offers the widest application flexibility in the industry it will fit door thickness ranging from 1 3/8" to 2 3/8" and is available in 2", 2-3/8" or 2-3/4" backset bolt lengths.

Forte HaspLock by D&D Technologies

D&D Technologies architectural stainless steel, high-security door locks, the Forte HaspLock and the Forte PullBolt, are made from 316-grade stainless steel, ideal for use in marine or other corrosion-prone environments. They're highly resistant to hacksawing, levering and oxyacetylene cutting; and extremely versatile for use on regular doors as well as roll-ups. Hinged models are available for difficult applications.



The Forte HaspLock is designed to replace a conventional hasp, staple and padlock arrangement, to provide greater security than traditional locking devices. Forte products can be used alone, or as add-on security for storefronts, factories, and compounds. The Forte HaspLock has a standard 6-pin "key-in-knob" style lock cylinder that can be keyed alike or master keyed, or replaced with high security cylinders. The Forte PullBolt comes in two models to be face mounted adjacent to the locking frame or mounted parallel to the ground. **INL**

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The following products were among the top contenders in generating product interest in the industry as determined by overall lead inquiries generated by readers of *The National Locksmith* in 2003. This is a selected group, consisting of only 13 manufacturers products. With over 61,000 sales leads generated from readers of *The National Locksmith* in 2003, the products below received the most requests for information.

HPC Inc.

HPC Inc., was founded in 1956, but don't let the blank expressions on the faces of those pictured here fool you. These key people are just a small representation of the cutting edge team at



HPC. Every employee at HPC plays an integral role in providing the industry with products and information needed to run a business successfully.

Many of HPC's products are developed based on input from locksmiths. The Lever Handle Remover was invented by a locksmith who chose HPC to manufacture and market the product all over the world.

A couple of years ago, in a meeting at HPC, a decision was made to build the best code machine in the industry. The room was full of creative people, engineers, draftsmen, mechanical and computer experts. Some with over twenty years of experience in the industry. Everyone had an opinion on what the machine should be able to do, but how do you determine what "the best" really means? So the question was taken to the street. Locksmiths were telephoned, talked to at trade shows and were gathered together in focus groups to ask this question. All this to determine what locksmiths wanted and needed in the ultimate computerized code machine. This journey led to the development of the Blue Shark.

The reason they are so proud of this accomplishment is that their entire company from assembly and production to customer service and sales worked together; supplying knowledge and encouragement, help and guidance to ultimately create the Blue Shark.

ASP Inc.

Formerly known as Auto-Security Products ASP's latest introduction is the T-Code machine for programming transponder keys, which was developed in England by Greg Chambers and Karmjit Kalsi. They are engineers who worked on development of the first transponder systems for the European car industry in the 1990's, after the car industry was mandated by various European governments and insurance companies to make cars more difficult to steal. Because they actually worked on the development of the transponder systems, they have a better knowledge of how these systems work in order to develop the equipment required to program keys. Sales of the machine were originally limited to Europe, mainly because this type of equipment was needed sooner in Europe than the USA

because cars sold in Europe used transponder systems for a longer period of time. Also, cars sold in the USA often used different transponder systems than the same model cars sold in Europe, thus requiring additional software to be designed for the North American market. This development was done with the assistance of Michael Hyde and John Steiner. Without their contributions, preparing the machine for the USA market would have taken much more time and effort.

ASP was chosen as the marketing company for T-Code because of their strong foundation in supplying car locks and service parts, and because of their relationship with a Spanish company who markets the T-Code in Europe. The Spanish company, Elme Tools, was the developer of the original TCL-1 machine, which was first sold by ASP. The T-Code was such a good machine, and the engineers were able to develop new software so much faster than the TCL-1 engineers could, that Elme Tools decided to abandon their own machine in favor of selling T-Code, which is quite a compliment to T-Code. With the cooperation of all parties involved, ASP offered TCL-1 owners a generous trade-in opportunity to move up to T-Code, which was accepted by 90% of TCL-1 owners. By this process T-Code has become available through the ASP distribution system.

The T-Code machine is now sold around the world under several different brand names, and offers more software packages than any other multi-brand programming equipment available today. ASP is proud to have been a part of this fantastic product.

Tri-City Lock Company

In 1979, Daniel D. Mello Owner/Inventor of the Hole Saw Alignment Guides purchased a



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sparingly equipped van from a retiring part-time locksmith. After 25 years, he turned Tri-City Lock & Key into a successful commercial locksmith service in the Bay Area of California.

The original Hole Saw Alignment Guide was invented

two for the price of one

Dual reading technology / active and passive

PROXIMITY CARD READERS

A unique feature of the DKS proximity card reader product line is that the card readers are compatible with both passive and active tags. This allows a mixing of different cards and tags to achieve desired read ranges in different locations without having to install a second card reader or carry two tags. These readers feature a cosmetically appealing design that will blend in with any architectural design and offer high durability and reliability

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for a large job where existing holes on the doors of modular buildings were 1.5" diameter and had to be drilled to 2-1/8" diameter and no jig or clamps would fit on the doors. He constructed a tool made up of two pieces of wood with a spring inserted on the shaft to keep pressure on the guide. After using the wooden tool on the job, he decided the material wasn't practical. So he made an aluminum two-piece cone, which he decided wasn't practical either. The next one was a one-piece hardened stainless steel cone, but it was very expensive to produce. Then he used a hardened aluminum cone with no bushing, which was less expensive to make, but he still wasn't satisfied.

The tool that's manufactured today is made of regular aluminum with a hardened bushing in the center of the cone. This means that the guides will last a long time, and it also keeps the manufacturing costs down. The three sizes of Hole Saw Alignment Guides were developed after numerous requests from customers and potential users for guides that could be used on cabinets, desks, etc. The final outcome was the addition of the 7/8", 3/4" and 5/8" diameter Hole Saw Alignment Guides.

Hinge Doctor

Steve Goldstein is the founder and inventor of the Hinge Doctor. The development of the Hinge Doctor came about from the constant need to adjust new doors and frames during installation, however he found an even bigger market existed for adjusting older existing doors that sag, or

that don't close and latch properly. Since it's inception four years ago, the product line has grown to four models. They are the HA1 for standard commercial hinges, the HA2 for residential hinges (just introduced in April 2004), the HA3 for commercial ball bearing hinges and the HA4 for prison/institutional hinges and spring hinges.

Steve says he has enjoyed the many friendships forged and exchange of ideas and opinions that he encountered at seminars, trade shows and other locksmith gatherings. Steve also helped develop the Schlage D series bezel nut wrench (manufactured by PRO-LOK).

A-1 Security Manufacturing Company

A-1 security Manufacturing Company was founded in the late 1960's. The company emerged as a result of a joint effort between a locksmith and a machinist.

Ricky Kins is the R&D manager for A-1. He is responsible for the design of most of its innovative tools. Ricky is a true innovator. A-1 became aware of a void in the marketplace for a top quality installation jig for cylindrical locksets (Pit Bull-2). The tool was developed in a manner that locksmiths do not need a myriad of accessories, for example cross holds can be drilled with standard hole saws that every locksmith already owns.



His favorite memory was when he was teaching an automotive class years ago that was open to any locksmith that wanted to attend (no pre-registration). Normally this hands on class was done for 30-50 locksmiths, so he set up for the class and then left to get breakfast. When he returned there were approximately 125 locksmiths eagerly awaiting this hands on class.

He loves to return from a trade show and share with the employee's the positive input he heard from locksmiths regarding A-1 products. Every product that they introduce must pass simple but meaningful criteria: it is either better, unique or less expensive. In most cases their products meet at least two of the objectives.

Gaplock

Gaplock was founded in November 2001. Brooke Austin is the Communications Manager for Automated Security Technologies (Gaplock).

Knowing that an automated garage door is vulnerable to invasion, they set out to develop an automated garage door lock that provides meaningful benefits to the marketplace and is easy to install. After extensive market and application research, they developed plug and Gaplock, an automated lock for automated sectional roll-up garage doors that can be installed in under 20 minutes with basic tools and skills.

One of their favorite memories comes from CEO, Rodney Shoemaker. A customer called AST's office because their car/house keys had inadvertently gotten locked in the car while groceries were being unloaded and they couldn't get into their house. After explaining that an automobile trunk can be diffi-

Continued on page 26

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cult to get into, I asked them if they kept a spare car key in the house, they said 'yes'. Then I asked them if the door between their garage and home was locked, they said 'usually not'. When I suggested that I could get into their house through the automated garage door they said, 'not through ours'.



They owned one of the larger installation companies in town and outfitted their garage door with the best their company had to offer. It really surprised them when I pulled a bent wire from my truck, went up to the garage and had their automated garage door open within 15 seconds. The wife was startled that they were so vulnerable and concerned that all of their customers were probably just as vulnerable. It was one of those moments when you know you have come up with a good product and a solution to a very real threat.

They are proud of the positive response they are receiving from professionals and consumers alike who have come to recognize that garage door openers do not lock the garage door, and Gaplock's easy to

use/install solution (to the automated garage door vulnerability) is just what they are looking for.

Kwikset Corporation

Chris Metz is the current President of the Black & Decker Hardware and Home Improvement Group (BDHHI). Kwikset® founders Adolf Schoepe and Karl Rhinehart revolutionized the industry in 1946 with their tubular design that replaced the old-fashioned mortise lock.

Kwikset reengineered its premium deadbolt from research of the most common burglary methods. The Grade-One deadbolt features, like the Ultra Strike Door Jamb Brace with the long (three-inch) screws were selected because it significantly helps prevent against entryway kick-in attacks. The research also helped Kwikset with decisions to imbed ball-bearings and insert a free rolling titanium pin in the bolt to prevent against power tool attacks. The burglary research helped them identify weak points, and reach our Grade-One deadbolt certification.

Chris says it is a pleasure to have directed the activities of the leading manufacturer of residential locksets for nearly five years. At Kwikset you will find outstanding professionals in every area from Customer Service to product manufacturing through sales and marketing. The recent inclusion of Baldwin Hardware® and Weiser Lock® is a tremendous addition to their organization that they are all very proud of.

Hinge Tweaker

Like other professional grade tools, the Hinge Tweaker was designed to solve a reoccurring problem - the constant need for door alignment. In 1986, Ron Tome (the



Hinge Tweaker designer) decided to develop his own professional grade Hinge Tweaking tool. The product development was spurred to simplify and improve his day-to-day door, frame and hardware field work. Ron's goal was to stop using large crescent wrenches or a pair of vice grips to realign commercial grade door hinges. As everyone in the door and hardware industry knows, using a crescent wrench or a pair of vice grips is not the ideal solution. Ron recognized there was a need for a professional grade hinge tweaking door alignment tool and developed a solution that would endure his everyday rigorous use.

Today the Hinge Tweaker is successfully being used in every region of North America. Ron credits and would like to thank all of our distributors and resellers who have made this possible. He could not have done this without them.

Lockmasters Inc.

Founded in 1955, the Lockmasters and Lockmasters Security Institute (LSI) success is because of the professionals that are a part of Lockmasters, Inc.,



and their collective and ongoing pursuit of excellence.

They identified an aspect of automotive technology that although very simple in concept, could prove to be a great add-on service for the automotive locksmith. The Keyless Remote Battery Checker also serves to help the locksmith educate their customer about the technology of keyless remotes therefore driving the locksmith's sales of keyless remotes, in addition to replacement batteries.

Lockmasters feels that with each new product they introduce, with each class they teach and event they participate in, they're creating great new memories.

Lockmasters has successfully expanded their business from safe locks, tools and training to additional, new aspects of locksmithing through top-notch tools and unrivaled training. Lockmasters has a very unique spot in this industry because the locksmith knows he/she not only has access to all the best tools through them, but also the technical expertise to back it up.

WedgeCo

Founded in 1991, the WedgeCo staff of Pam, Debbie, and Van know key extraction. The first WedgeCo product was the 2 in 1 window wedge and door panel removal tool, a strong sharp fiberglass wedge with a firmly attached metal handle and a red rubber handle grip which is still sold today only with an improved design.

Next came the Broken Key Extractor Kit which has two

patents, came about as a result of the many dozens of hours spent removing broken keys from automobile ignitions on AAA calls. Learning how to impression keys also resulted in many broken keys, and without a Broken Key Extractor Kit some ignition locks had to be drilled out and replaced. So they learned all about the misery of removing small pieces of broken keys from VW's, Volvo's, Porsche's and Toyota's etc.

The Broken Key Extractor kit began with the unique design of the tumbler spreader pliers, and the design has been improved many times over the years. More recently they have designed a leather case for what is now called the Professional Kit. The second most important part of the kit is the instructions - That is the method for removal and that process also has a patent. If the instructions are followed, any locksmith should be able to remove a broken key easily from even the most difficult ignitions.

SDD Diagnostic Tool

The SDD (Silca Diagnostic Device) is a unique diagnostic tool capable of adding new transponder keys to a vehicles central computer. Security professionals no longer have to depend on on-board programming procedures to add transponder keys. The SDD quickly and easily originates new keys even when the customer has lost all existing keys.



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Designed and programmed to fit the needs of North American automotive key cutters, the SDD offers a range of features and vehicle compatibility unrivaled in today's market. Don't send your customers back to the dealership, the days of turning away high yield automotive jobs are over, the SDD is here.

Schlage Everest

Schlage's high security Everest Primus and medium security Everest cylinder and key management systems provide the optimal flexibility in key control and affordability. The medium and high security products can be mixed in the same key

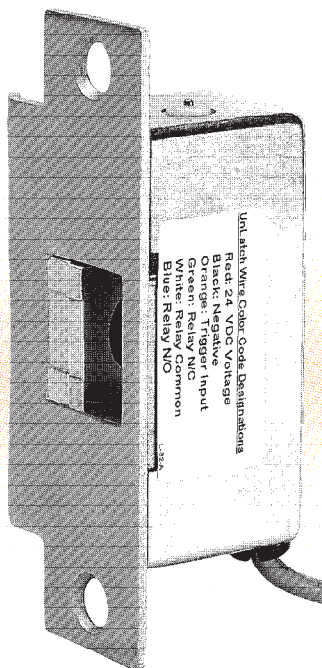


system and are upgradeable, enabling you to tailor security and cost to meet your exact needs. Both levels of security cylinders offer longer patent life (extends controlled key distribution), have keys that can be cut on standard machines (for maximum convenience and savings), and are available in a full range of cylinder types.



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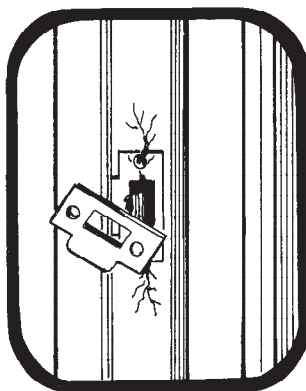
an add on security to bolster existing gate or door locks. The dedicated gate hasplock can be installed to gate gaps of up to 4". Single or double-hinged models are ideal for use on truck or shop toolboxes or vending machines. The locking mechanism is a deadlocked design, which protects the lock from tampering or prying. The Forte Hasplock is supplied with a 6-pin key-in-knob style cylinder, which is accessible for keying alike and master keying or being replaced with higher security cylinder systems. **TNL**

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- Adds reinforcement to healthy undamaged jambs for additional security.
- 72" length can be used to protect door jamb from cart and gurney damage.
- Non-handed. Can be used on right or left hand doors.
- Designed to cover standard 1/2" rabbeted jamb.
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- "Jamb Jacket" is recessed to accommodate T-strike. Available in 24", 36" and 72" lengths for 1³/₈" and 1³/₄" doors. Supplied with strike plate and mounting screws.
- "Econo Gard" is available in 16" lengths only and is not recessed to accommodate T-strike. Packaged with mounting screws.



JJL-138-24 for 1³/₈" Door...24" Long Plate
JJL-138-36 for 1³/₈" Door...36" Long Plate
JJL-138-72 for 1³/₈" Door...72" Long Plate

JJL-134-24 for 1³/₄" Door...24" Long Plate
JJL-134-36 for 1³/₄" Door...36" Long Plate
JJL-134-72 for 1³/₄" Door...72" Long Plate

JJB-134-24 for 1³/₄" Door...24" Long Blank Plate
JJB-134-36 for 1³/₄" Door...36" Long Blank Plate

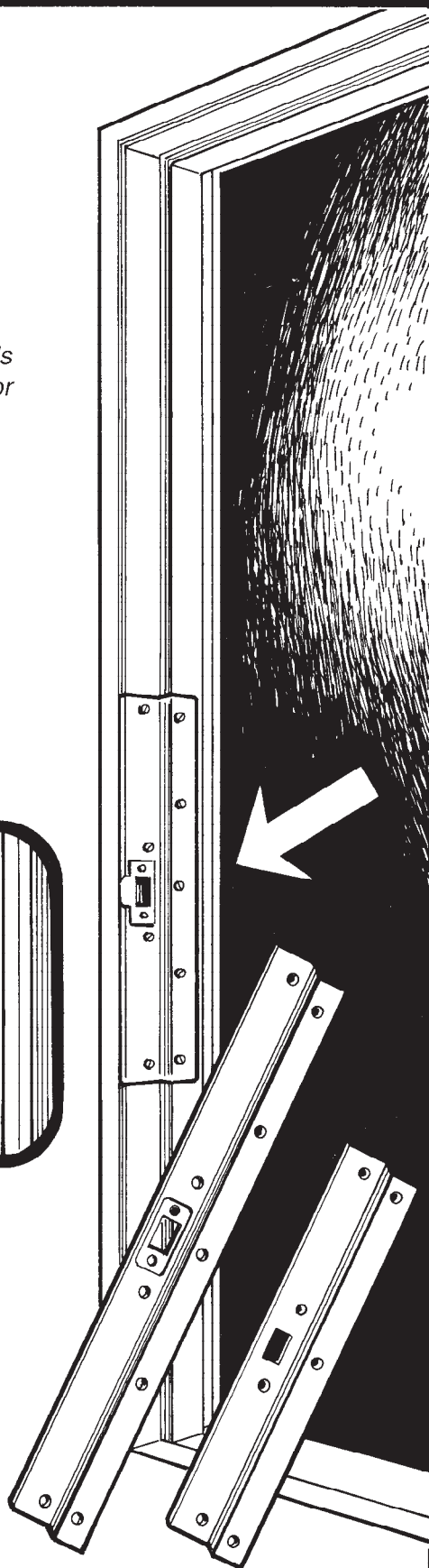
JJE-138-16 for 1³/₈" Door...16" Econo Gard Plate
JJE-134-16 for 1³/₄" Door...16" Econo Gard Plate

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2001 Toyota MR2

part I

by Michael Hyde & Alan Morgan



The Toyota MR2 Spyder is the third generation of Toyota's sporty, mid-engine two-seater. The car was not sold in the U.S. from 1995 to 1999, but since 2000 Toyota has sold the redesigned convertible MR2 in America. All new models share the same transponder system that is found on the Camry, Solara 4-Runner and other high-end Toyota models. This system requires a programmed master key if additional keys are needed. If no working master keys are available there are only two options: replace the Engine Control Unit (ECU) or have the existing ECU "reflashed" to accept new keys. Luckily, National Auto Lock provides this re-flashing service for a mere \$150.00, which includes 3 keys, easy-to-follow programming instructions and free ground shipping. In this case, the owner of the MR2 choose the cheaper resetting option, as he had lost his keys in the snow and did not want to pay \$1200.00 for a new ECU or wait for the spring thaw.

30 • Visit www.TheNationalLocksmith.com

— Door Lock —



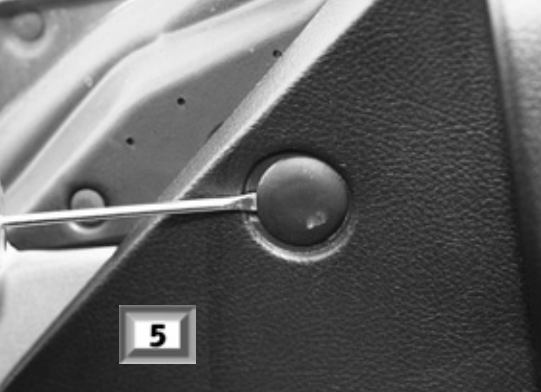
The door lock can be removed without removing the handle, but I chose to remove the handle for the sake of the article.



Door panel and door lock removal is fairly easy for this little sports car.



First remove the Phillips screw and inside panel trim piece around the lock/unlock button.



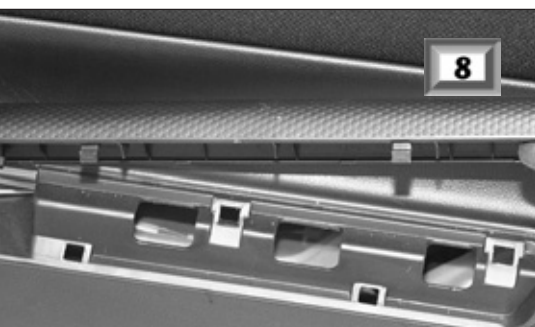
Second use a small flat blade screwdriver to remove the plastic "button type" clip that is found just to the left of the inside passenger door handle.



Next remove the large trim piece that surrounds the passenger side door handle, directly below the factory tweeter speaker.



Now you can remove one of the larger Phillips screws that secure the upper arm rest.



To gain access to the other large Phillips screw securing the panel, you must gently pry upward on the padded elbow rest.



Remove the remaining Phillips screw.



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10

Remove the panel by pulling outward.



11



You can see the bicycle-style cable linkages that are becoming more and more common on today's cars. For this reason it is recommended that you use an "invader type" inside access tool or under-the-window tool to open this vehicle. Trying to go down the panel will only leave you frustrated and cold.

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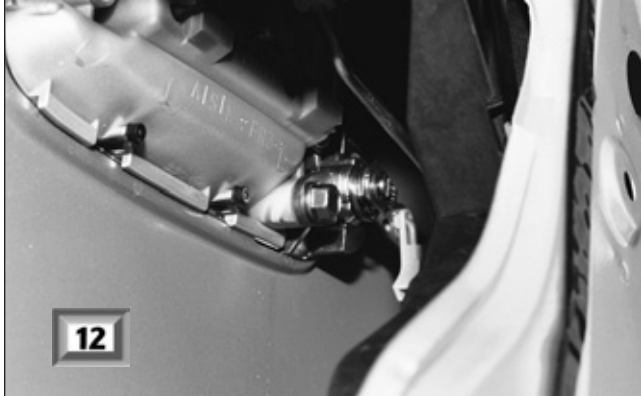
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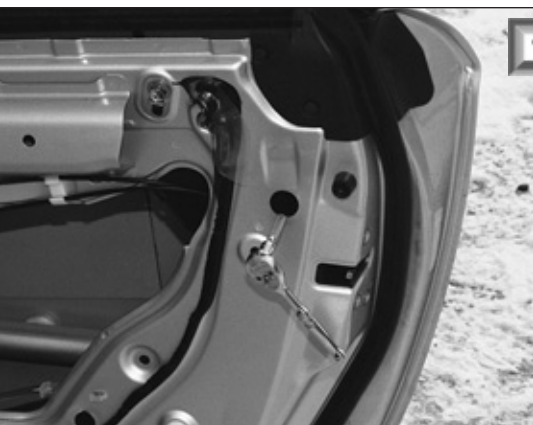
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The next step is to disconnect the handle to door latch linkages and the door lock to door latch linkages. After the linkages have been disconnected, you can easily see the two 10mm bolts that hold the handle in. (The leftmost bolt has been removed in this picture.)



Here is a picture of the socket in the access hole to remove the right 10mm. bolt.



The handle can now be removed from the front.

Adams Rite
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Bradley
Brey & Krause
Dynalock
Essex Electronics
Excel Dryer
Folger Adam
Glynn Johnson
H.E.S.
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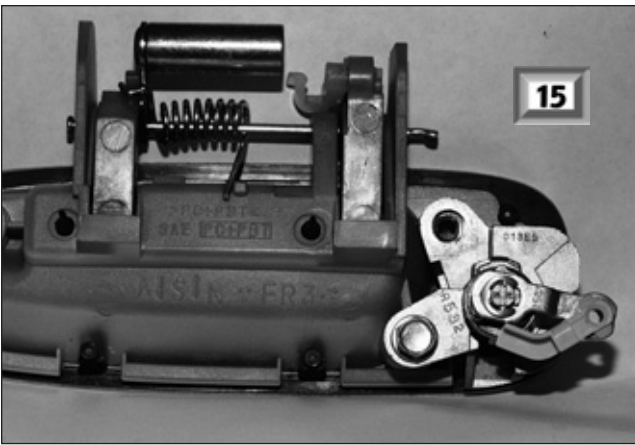
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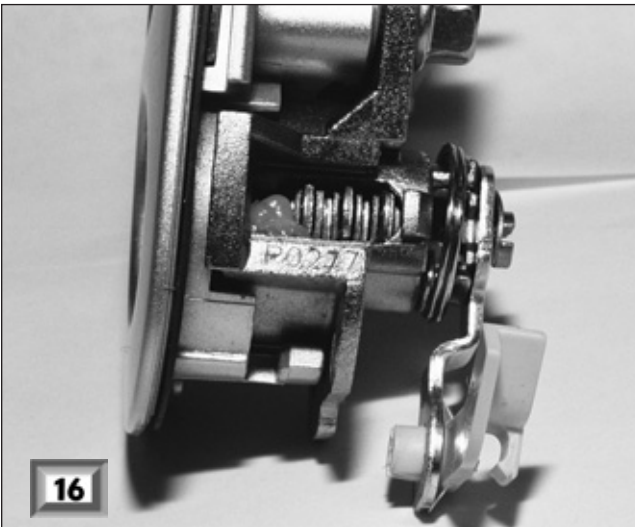




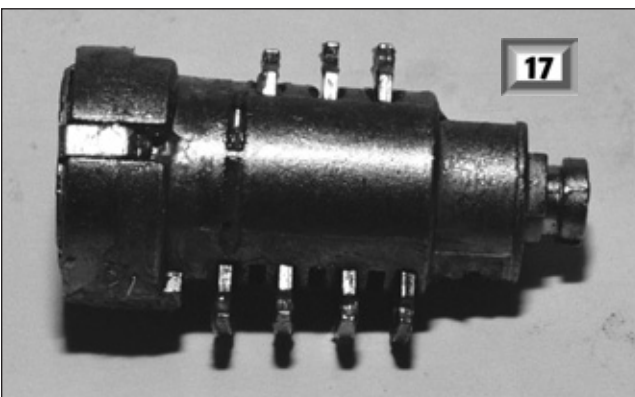
— Ignition Lock —



A view of the handle removed from the car and how the lock cylinder is attached.



Now that the handle has been removed you can easily see the key code (P0277) as well as the remaining 10mm bolt that holds the lock to the handle.



Here you can see the last seven of eight tumblers. They are stamped with the depth.



The door lock disassembled.



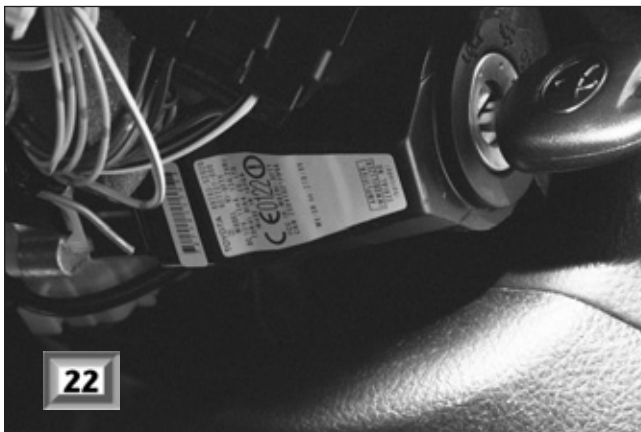
The ignition lock on the MR2 Spyder is very similar to that found on the Toyota Corolla. Start by removing the single Phillips screw that is located at the 6 o'clock position on the underside of the shroud.



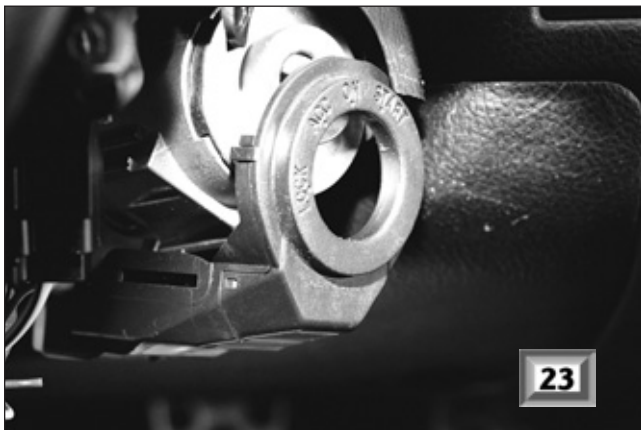
Remove the two Phillips screws that hold the clamshell steering wheel shroud together. These screws are located at the 3 o'clock and 9 o'clock position directly behind the steering wheel. A working key is needed at this point, as the steering wheel must be unlocked to get at these screws.



Now unsnap the upper and lower half's of the shroud.



The ignition lock is now visible at this point, but to remove the cylinder you must get the antenna ring out of the way.



Gently slide the antenna over the front of the ignition housing.



Like all Toyotas this car uses an active retainer system. With the key in accessory position push in the retainer and remove the ignition cylinder.

Next month we complete the ignition disassembly, service the trunk lock-out switch and remove the ECU. See you then.

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Series: P1-P2390 Code: P0001
 Manufacturer: Toyota Biting: 21324311
 Type: Vehicle Notes:

Spaces: 1 2 3 4 5 6 7 8
 98 181 264 346 429 512 594 677

Depth: 1 327
 2 299
 3 272
 4 244

Align To: SHOULDER
 Units: [Inch (1/1000)]

Key Machine: [Card] InstaCode Card: 002 HPC Cutter: CW-47MC
 HPC Card: CF88 Silca Cutter: 04
 Silca Card: 264 Align To: SHOULDER

Notes

| Original | Silca | Ilco | Ilco E2 | Alba |
|----------|--------|------|---------|------|
| TOY38R | TR40 | TR40 | | |
| TOY38RAP | TR40-P | | | |
| TOY45R | TR48 | TR48 | | |
| TOY38RP | TR40P | TR40 | | |
| TRV41R | XP11 | TR44 | | |

Back Print Save Client Info Show Cut Key

ELECTROMAGNETIC LOCKS

When choosing a magnetic lock, dealers and end users need to be concerned with liability, as well as facility safety and security. It would be a serious concern to consider magnetic locks as a commodity item and base their choice solely on price without regard for proper safety listings and performance test certifications. On the other hand, to demand minimum attributes that include safety listings and performance certifications can help to ensure safety and security while minimizing potential for liability. Of particular concern are low priced imports that lack UL listings or performance certifications.

First, it should be understood that UL test procedures do not normally include holding force and other performance testing. UL does, however, specialize in testing products for electrical safety, which is very important. But, you should be looking for more than a basic UL Listed mark (see figure 1). When choosing a magnetic lock, you should ask several questions to verify a products quality, safety and performance capability as it pertains directly to personnel and public safety and security.

1. Is the lock UL safety tested and listed for the purpose it was intended?
2. Does the lock carry proper listings per state, city or building code requirements?
3. Does the lock carry certification of its compliance to ANSI performance test standards, including holding force rating?



1. Basic UL Canadian, US listing mark.

MAGNETIC LOCK LISTINGS

UL Listed—Auxiliary Lock:

This means that the lock has been tested for use as an auxiliary lock for doors, including fire rated doors. This is the minimum listing that you should require under any circumstance.

UL Listed—Burglary Resistant:

This listing indicates that while installed on a door and frame, the lock has passed a UL conducted attack test. The Burglary Resistant listing is normally found on locks with 1200lbs holding force or

higher. Do not assume that all 1200lb rated locks can withstand an attack. Despite holding force specifications, all locks are not equal and may perform differently under certain conditions.

Evaluated in accordance with Standard UL 10C—Also classified in accordance with Uniform Building Code Standard 7-2, “Fire Test of Door Assemblies”: This evaluation and classification should be required for all magnetic locks to be installed on fire rated doors where the authority having jurisdiction adheres to the Uniform Building Code. The primary purpose of this test is to determine the ability of the door assembly to remain in the opening under positive pressure fire conditions. The lock evaluation and classification indicates the lock should not interfere with the doors integrity under these conditions.

CSFM Listed (California)—“The Office of the State Fire Marshal’s (SFM) Building Materials Listing Program” requires that magnetic locks be approved and listed by the California State Fire Marshal prior to sale or marketing within the state (see figure 2). Each product approval and listing is based upon an evaluation of test results that include an analysis of required product performance and reliability features. All companies that want to list products in California must



2. California CSFM Listed.



3. The City of New York MEA may also require specific listings.

have those products tested by a SFM accredited laboratory. Other cities or states, such as the City of New York MEA may require certification (see figure 3).

VERIFY PRODUCT LISTINGS

While the product datasheet may carry a UL listed mark, before you purchase a lock it is highly recommended that you obtain a copy of the UL listing document from the manufacturer; or go to the UL website www.ul.com where you can verify and obtain a copy of the listing through the UL's Online Certification Directory. State of California listings may be verified in a similar manner at: <http://osfm.fire.ca.gov/bmlisting.html>.

BHMA CERTIFICATION OF ANSI COMPLIANCE

The Builders Hardware Manufacturers Association Certification Program was developed as a means for manufacturers of builders' hardware to indicate compliance



4. The Builders Hardware Manufacturers Association Certification Program.

with the American National Standards sponsored by BHMA (see figure 4). The participating manufacturers certify compliance with these standards based on a continuing program of passing the prescribed tests by an independent third party. A "BHMA Certified" logo indicates that the magnetic lock performs to the minimum requirements set forth by ANSI Standard A156.23 for magnetic locks. Based primarily on performance testing, this ANSI standard includes operational tests, electrical tests, cycle tests, tension strength tests and the dynamic impact tests. Remember, UL tests are primarily designed around safety concerns.

As U.S. manufacturers are fully aware, without regular certification tests such as those conducted through BHMA, performance claims, (particularly holding force ratings) can be wildly exaggerated by hundreds of pounds.

The BHMA Certified Products Directory may be found at: www.buildershardware.com. The free online directory includes all certified mechanical and electrical door hardware listed according to product type and manufacturer. A copy of the directory is also available in the online BHMA bookstore.

PROVIDE CODE COMPLIANCE AND LISTING INFORMATION

When presenting a bid proposal, be sure to include code compliance, safety listings, performance certifications and their benefits. Your competition may not do so. Not only needed for inspection, this information can be a useful selling tool by instilling customer confidence in your expertise and your products.

ELECTROMAGNETIC LOCKS—DESIGN ATTRIBUTES

Taking a look at the locks design and installation attributes is extremely helpful in selecting a quality product. Using the SDC EmLock as an example (see figure 5), the following details enable us to identify those attributes that assist in selecting a design that can go far in making things easier and less costly for the distributor, installer and end user.



5. The SDC EmLock.

First look at the basic attributes that are beneficial to stocking, handling, installation, maintenance and replacement ease. In the SDC EmLock, attributes beneficial to these areas include a complete family with uniform design and installation of all models, interchangeable and upgradeable modular assemblies, interlocking

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BP201ARFC

ARROW FLEXCORE

Arrow Flexcore 51, 52,
53, 54, 61, 81, 83, 84
(will cut A3 & A4
w/purchase of code bars)

BP201C70

CORBIN C70

Most Popular Corbin
System 70 Keyways
59 Series A1, A2, B1, B2, D2
60 Series 6 pin

BP201DE

DEXTER / MASTER

Master Door Locks
All Dexter Cylinders

BP201FW

FALCON WEISER

Falcon Standard (Non I/C)
(Will Not Cut 8 Or 9 Depths)
All Weiser Cylinders

BP201IC

I-CORE A2 SYSTEM

A2 Standard I-Core (I/C)
(will cut A3 & A4 w/purchase of code bars)
Best, Falcon & Arrow
Small Format I/C Key Sections
A-R, TA-TE, W
Arrow 1A-4D

BP201IC-A3

I-CORE A3 SYSTEM

BP201IC-A4

I-CORE A4 SYSTEM

BP201KW

KWIKSET

Kwikset Standard
Titan (Will Not Cut Square 1st Cut)
Yale Residential

BP201SC

SCHLAGE-CLASSIC

Schlage Classic (Including I/C)
Obverse Key Sections
C, CE, E, EF, F, FG, G, H, J, K, L (Aftermarket)
Schlage Everest C (Including I/C)
(ie: C123, C124, C126, C135, C145.... etc.)
Primus Same Key Sections As Obverse Except a
"P" Has Been Added To Keyway #
(ie: CP, CEP, EP, etc.)
Everest Primus Uses Same Names

BP201SCEB

SCHLAGE-SMALL FORMAT

Schlage Everest B
(ie: B123, B125, B234, B235)
All Keys With a "B" + 3 Digits
(will cut A3 & A4 w/purchase of code bars)
DO NOT DUPLICATE
PAT. 5,715,717

BP201SCRV

SCHLAGE-REVERSE

Schlage Reverse Sections
D, DQ, Q, QS, S, T, U,
V, W & Y

BP201WK

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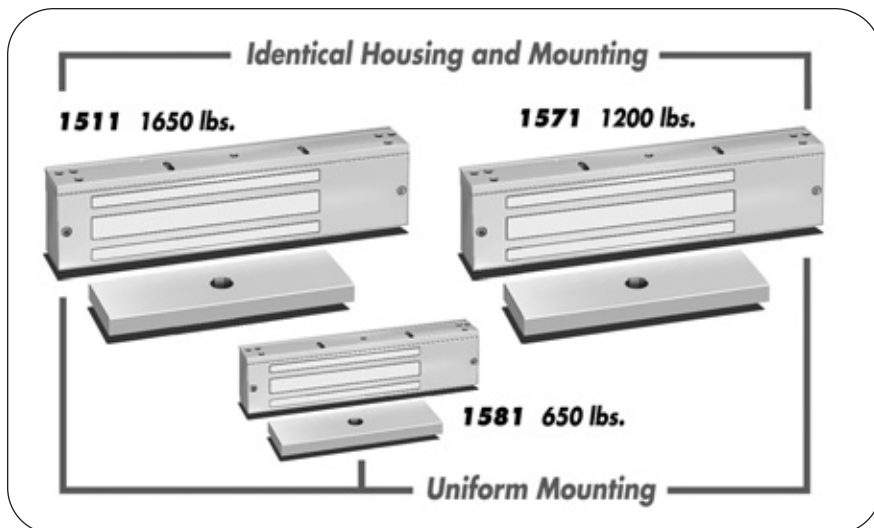
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Circle 243 on Rapid Reply



6. The lock coils can be swapped.

E-Z mount assembly, lifetime warranty, and lifetime serviceability and upgradeability of all components, including the coil, without removing the lock from the frame.

The following is an overview of the EmLock attributes and their benefits.

ATTRIBUTES

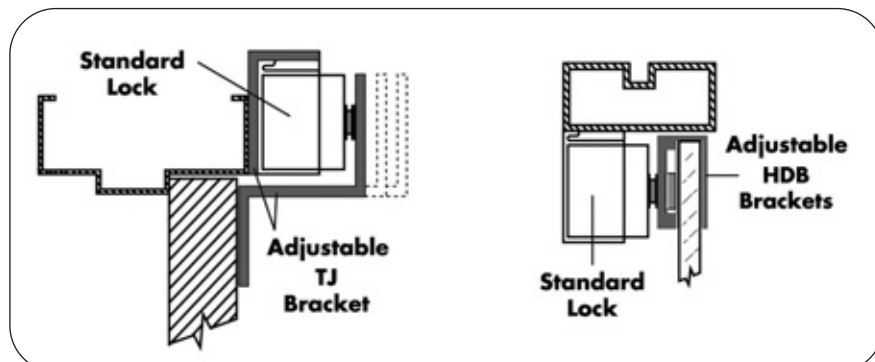
Uniform Design & Installation of All Models: After the installation of one lock in the family, the dealer is fully knowledgeable of the construction and installation of all magnetic locks in the family, including 650lb, 1200lb and 1650lb models. What's more, the 1200lb and 1650lb models are completely interchangeable and utilize an identical housing, installation template and modular components. The lock coils can be swapped (see figure 6) and all locks utilize and auto sensing 12/24VDC input, eliminating voltage compatibility concerns. The specification, installation and service of all locks are greatly simplified.

Universal Mounting Kits: The uniformity doesn't stop with the basic lock. All locks utilize the same HDB-Glass Door kits and uniform TJ-Top Jamb mounting

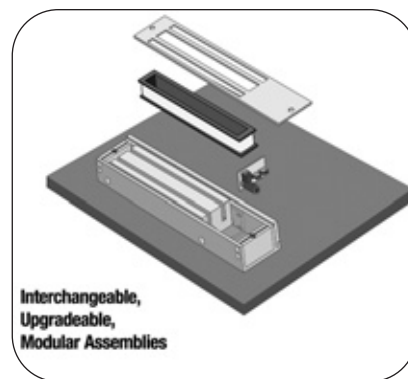
kits (see figure 7). With only three core locks and a choice of kits, stocking requirements are greatly reduced and the installer need not specify special models that may have potentially longer lead times.

Interchangeable and Upgradeable Modular Assembly: Distributors and installers may reconfigure the locks, as needed for specific installation requirements (see figure 8). Only three interchangeable PC boards are needed to add or remove options, such as time delays, magnetic bond sensors, door status sensors and LED status indicators.

Stocking Requirements: The EmLocks flexibility enables distributors to add options and mounting hardware as needed, eliminating the need to stock several models. Installers may make feature upgrades in the field.



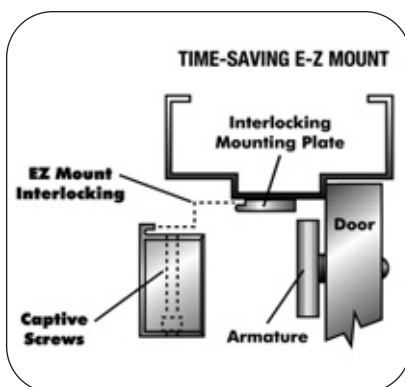
7. The HDB-Glass Door kits and uniform TJ-Top Jamb mounting kits.



8. Only three interchangeable PC boards are needed to add or remove options.

Interlocking EZ Mount Assembly: All mounting plate screws are self-drilling and tapping, so only the armature and wire access holes need to be drilled. The interlocking mounting assembly provides a means of positive attachment of the lock to the frame, as hands are free to fasten the captive mounting screws (see figure 9). Unlike rivet nuts and screws that require special tools, more experience, more hands, dexterity and time; the pre installed captive screws are pre-targeting and quickly tightened. The interlocking assembly eliminates the need for many fasteners by providing the strength equivalent to many mounting screws. Installation time and labor costs are reduced.

Lifetime Serviceability: In addition to the EmLock lifetime warranty, the need for lock replacement is eliminated. Any part of the EmLock, including the coil, can be replaced in 5 minutes



9. The interlocking mounting assembly provides positive attachment to the frame.

without removing the lock from the frame (see figure 10). This lifetime serviceability eliminates the wait for the manufacturer or distributor replacement lock shipment and time-in-transit. Most importantly, the time and labor costs associated with complete lock replacement are eliminated.

BENEFITS

Distributor Benefits Include: Modular interchangeable and

upgradeable stock; reduced stock with only three core magnets of 650lb, 1200lb and 1650lbs; application flexibility; Lifetime serviceability and upgradeability and elimination of lock replacement.

Dealer Installer Benefits Include: Modular interchangeable and upgradeable assemblies; application flexibility; simpler, faster installation; reduced labor cost; reduced callbacks; lifetime serviceability and upgradeability and the need for lock replacement eliminated.

End User Benefits: lifetime serviceability and upgradeability without lock removal; door security downtime reduced or eliminated and the need for lock replacement eliminated.



Upgrades and service without removing the lock from the frame eliminates lock replacement lead time and labor
Lifetime Serviceability and Upgradeability

10. Any part of the EmLock can be replaced without removing the lock from the frame.

ELECTROMAGNETIC LOCKS—SELECTING THE PROPER HOLDING FORCE

It is important to understand that magnetic locks are designed primarily for fire and life safety applications. However, due to their trouble free operation, they have become popular for applications other than fire and life safety, but should never be considered as a substitute for high security electromechanical locks. Other considerations when

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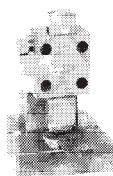


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THE Residential Hinge Doctor



by
Sal Dulcamaro,
CML

The Hinge Doctor tools are a m a z i n g l y compact and very efficient devices. The previously issued models include the model HA1 in black, model HA3 in blue and model HA4 in red (see [photograph 1](#)). The HA1 was designed for standard commercial hinges, while the HA3 was intended for larger sized commercial hinges. The model HA4 was specially designed to work on oversized and strong institutional door hinges. The basic principle of operation is to slide the tool over the hinge knuckles which would mostly immobilize the door, then attempt a partial opening

of the door against that resistance (see [photograph 2](#)). That opening force would have the tendency to slightly bend the hinge and pull the two leaves of the hinge closer together.

Ultimately those actions would help to lift a sagging door and allow the door to close more smoothly. While it has always been possible to remove a door from its frame and re-bend the hinges to overcome a door



2. Slide the tool over the hinge knuckles, then attempt a partial opening of the door against that resistance.



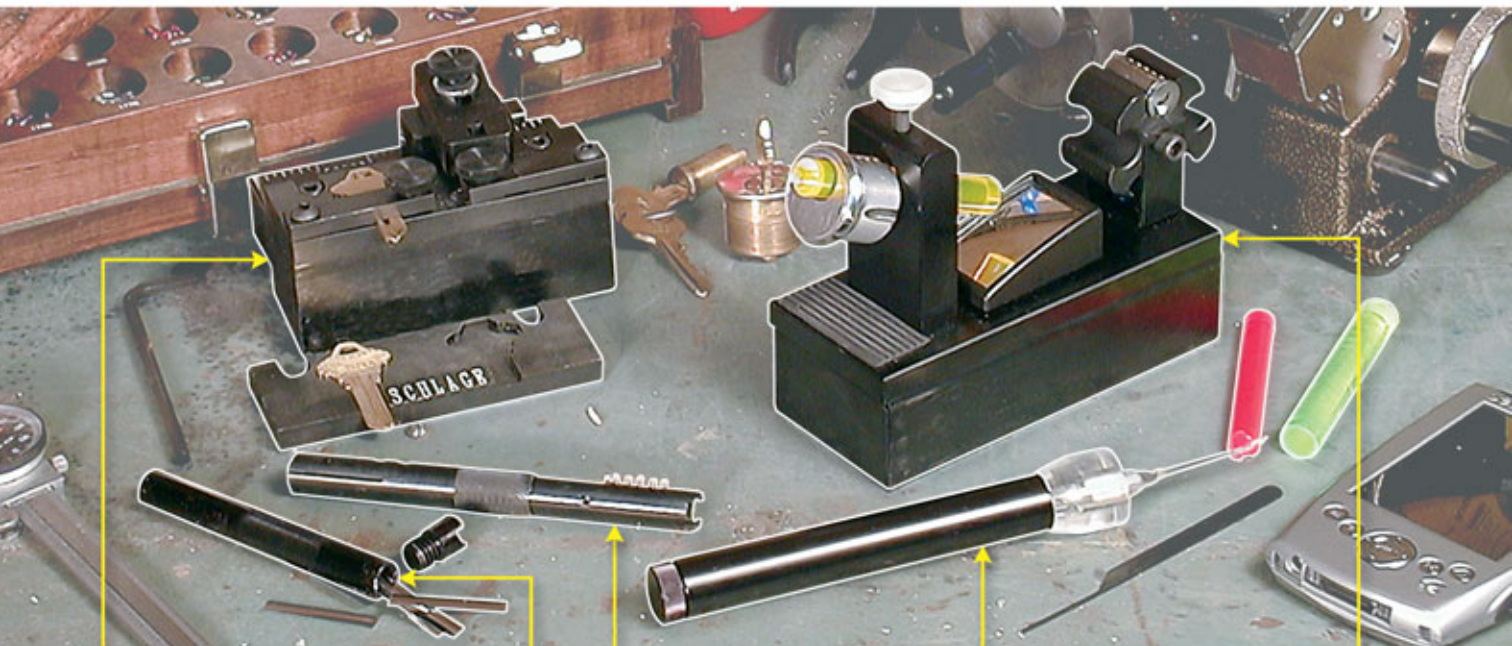
1. The model HA1 in black, model HA3 in blue and model HA4 in red.

sagging, the Hinge Doctor tools make the job nearly effortless, w h i l e drastically reducing the time needed to accomplish the task. You may have noticed that when I described the three Hinge Doctor tools, that there was

no indication of a model HA2. Well, that was omitted because that model number was reserved for a residential Hinge Doctor tool. That empty space has been recently filled with the introduction of the model HA2 Residential Hinge Doctor tool (see [photograph 3](#)).

This tool looks somewhat different than the earlier three Hinge Doctor models for some very important reasons. The biggest reason is the typical mounting of a residential hinge compared to a commercial hinge. The three earlier tools and the Residential Hinge Doctor tool operate on a similar principle, but are used differently. How they are used affects the stress points when trying to re-bend a hinge.

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3. The model HA2 Residential Hinge Doctor tool.

With the original style Hinge Doctor tools, you would re-bend a hinge by sliding the tool over the hinge knuckles (usually the top hinge, but sometimes the middle hinge, too), and then gradually pull the door open. The tool will mostly immobilize the hinge and try to keep the door from opening. There is a little play allowed by the tool that allows very slight opening of the door before any resistance is felt. Once you feel that resistance, you need to pull the door slightly further open against the resistance. The two leaves of the hinge on a commercial door are typically anchored rather securely by sets of screws into metal on the frame side and door side. As you pull the door slightly further open against the resistance caused by the tool, significant stress is applied at the point where the screws attach to both the door and frame. Without securely anchored screws, you are likely to pull out the screws rather than re-bend the hinge leaves.

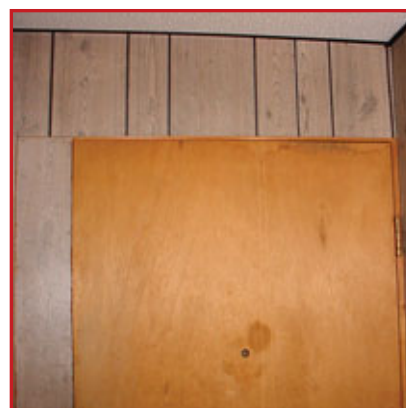
An earlier unreleased version of a Residential Hinge Doctor looked something like the other three tools in photograph 1. When first tested, using otherwise identical steps, there was a tendency for the stress at the mounting screws to allow the screws attached to wood to pull right out of the door and frame. The HA2 spot has been held in reserve since then, as research into more effective ways to re-bend residential hinges attached to wood have taken place. The goal was ultimately the same: a tool that

would re-bend hinges on sagging wood doors and frames, where the door did not have to be removed from the frame first. This tool has been long anticipated, and I think it is worth the wait.

There was a pre-release testing program that put the tool through its paces and the final product sports a number of refinements suggested by the testers. Actually, during the testing phase, there were a few different versions of the Residential Hinge Doctor tool, both in look and material construction.

If you look back at photograph 3, you will see the culmination of that research with various refinements suggested by that research and testing. Among the refinements are a number of shorthand instructions that are engraved in the tool to keep you from making mistakes during use. There are two ends to the tool, A and B, to account for different hinge knuckle diameters, and there are adjustment screws at each end. An Allen wrench (included) is used to tighten or loosen the screws. There is an arrow indicating which direction the tool should point and the direction to turn the tool for adjustment. There is a notch on the tool near the arrow, which allows you to tell the direction to point the tool whether the hinges to be adjusted are on the left or right side of the door.

Besides having a different appearance, the instructions for using the model HA2 Residential Hinge Doctor tool are different. It is very important that you NOT open the door you are fixing while the model HA2 is on a hinge. You could damage the



4. The door was catching the top left corner of the frame and not closing easily.

tool if you do. Always remove the tool before opening the door.

I came across one residential door where the top part of the door was catching the top left corner of the frame and not closing easily ([see photograph 4](#)). If you pushed hard enough the corner of the door would squeeze into the frame, but it was obviously rubbing and causing friction. Before you attach the tool, you will need to determine which hinge knuckles are part of the leaf that mounts to the door. A typical hinge will have five knuckles and two knuckles will be part of one leaf and three knuckles will be part of the other leaf. For the door I was adjusting, I was able to determine that the three-knuckle leaf was attached to the door side. As such, I needed to adjust the top, middle and bottom knuckles of the five knuckles visible on the hinge. Make sure that you don't adjust the knuckles attached to the leaf on the frame side.

I slid the tool over the hinge, positioning it over the top knuckle ([see photograph 5](#)). Note that the notch in the center of the tool is visible. The arrow indicating the direction of the tool would be underneath when you are facing the door and the hinges are to your right, as in my example here. If you don't see the notch and adjustment screws on the side of the tool pointing to the lock end of the door, you'll know the tool is backwards. Once the tool is over the knuckle to



5. The tool over the hinge.

be adjusted, tighten the Allen head screw until the tool fits snugly on the knuckle, but not tight. Although not in my photograph, I used the handle of the tool like a wrench and rotated it in the direction of the door handle. The heft and thickness of the hinge will determine the amount of force required to re-bend it. It is suggested that a pipe or crescent wrench be used to gain additional leverage when needed for thicker or stronger material hinges.

After bending the top knuckle, I repositioned the tool over the middle knuckle and also rotated the tool toward the direction of the door handle (see photograph 6). Think of the notch in the tool as the tip of an arrow and rotate in the direction that it points. The engraved arrow on the tool (visible in photograph 3) is on the side opposite shown in this photograph. Then I positioned the tool over the bottom knuckle, and adjusted that knuckle too. Many residential doors will have only two hinges compared to the

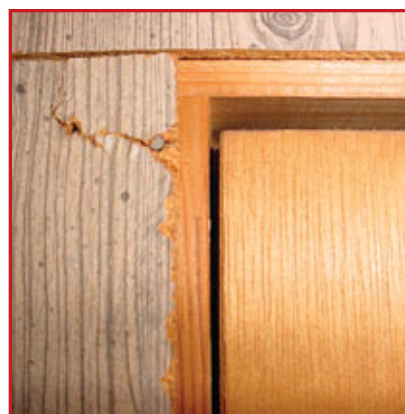


6. After bending the top knuckle, I repositioned the tool over the middle knuckle.


more common three hinges found on most commercial doors. If you have a residential door with three hinges, play it by ear if you think the middle hinge needs to be adjusted. The bottom hinge rarely needs such adjustment.

After I made the hinge adjustments, the corner of the door that had been rubbing now had a small gap and closed smoothly (see photograph 7). While the operating procedure is different, the different version Hinge Doctor tools accomplish the same goal.

I know that many locksmiths do door installation and service along with lock servicing, but not all. I am one locksmith that concentrates on the locks and leaves the door installation to others. In the past I have referred door adjustments (such as sagging doors) to door companies. I preferred not to have to try and remove tight and rusted hinge screws to remove the door and make necessary adjustments. Since I got my first Hinge Doctor tool some years ago, I refer only the



7. The corner of the door now had a small gap and closed smoothly.

very severe problems to the door companies. That means I've been making money on jobs that I used to turn away. I can't think of many tools that I use that help turn an easy profit quite like the Hinge Doctor tools. Except for the HA4 for institutional doors (which many of us never see), I can't see why any smart locksmith wouldn't want to keep a set of these tools in their tool case. They are small enough that they won't take up much space or crowd out your other important tools. One final note; one of the tool testers found that the model HA2 also worked on a type of commercial door called Timely Doors. I'm not extremely familiar with these doors, but I believe that they are a type of lighter duty commercial door. GKL Products in Fremont, California makes the tools. If you would like to find a supplier that stocks the tools, you can go to their website: www.hingedoctor.com and click on the link for distributors. You can reach them by phone at: (510) 791-0424. 

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The LCN Quest 1371 CLOSER

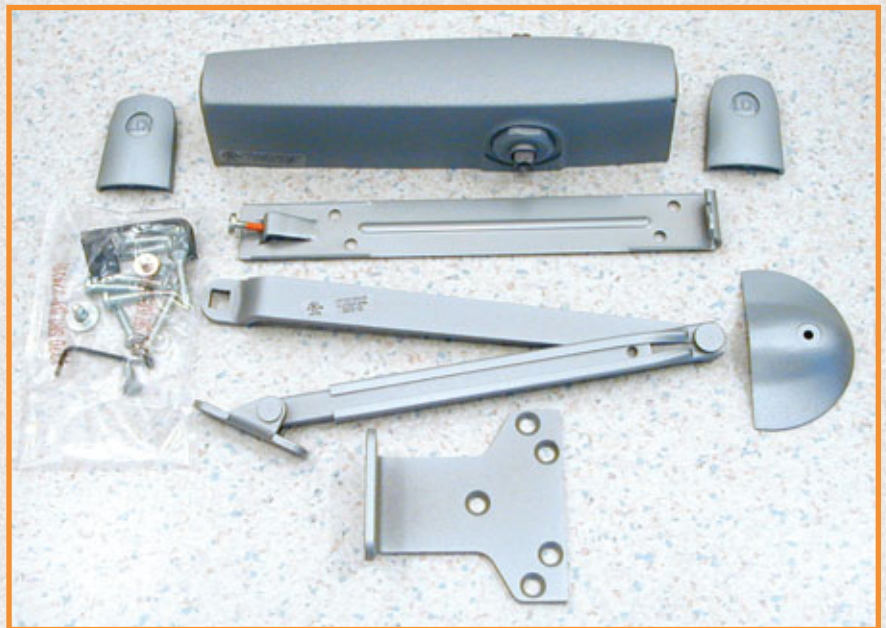
by
**Richard Allen
Dickey**



Have you ever wondered where the door closer came from? How about who invented the door closer? I found the history of the door closer so interesting, I want to share a small portion of it with you before we get into the installation of the 1371 Quest series closer form LCN.

In 1880, Mr. L. C. Norton was employed by the Bishop at the Boston Trinity Church to remedy a condition annoying to the churchman and his congregation. Several swinging doors in the church vestibule would open and close when the wind blew. The noise from the banging doors interrupted the services. In those days the door closer was unheard of. Controlling devices to prevent doors from slamming were unknown. Coil springs and double-swinging hinges were the only makeshifts available to close doors.

Mr. Norton changed the doors to swing one way by installing a rubber lined wood stop on the head casing of the door frame. However, the Bishop was not



1. Everything is included with the Quest 1371 door closer form LCN.

happy. He said that the continuous thumping of doors on the rubber stop, disturbed him greatly while preaching.

Disgusted that his efforts were not appreciated, Mr. Norton took off his overalls and threw them with his tools into a closet and violently closed the door. To his surprise, it did not slam. He tried it again and found

that the quick action of the closing door formed a pocket of air in the closet and prevented the door from slamming.

On the way home he could not forget how the closet door had reacted. That evening he was determined to solve the problem. He finally decided upon a tube and plunger arrangement. After a search he located an old air

Continued on page 50



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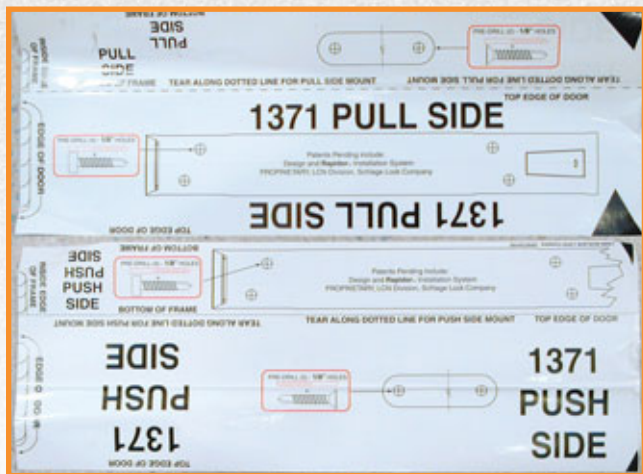
pump to which he fitted brackets designed to attach it to the door.

The problem of controlling the speed of the plunger was accomplished by cutting several vents in the tube. These vents allowed the air to escape and the door to close silently. This device was installed and it performed efficiently.

From this simple beginning, Mr. L. C. Norton, using his initials for the company name, founded the first company engaged in the manufacture of door closers on June 17, 1881. Since that time his entire life was devoted to the developing and perfecting of door closing devices.



2. There is a handy set of directions that will stick right to the door.



3. The template set will cover pull side, push side, right hand and left-hand swing.

Currently, LCN employs about 400 people. Since 1950, the company has produced a variety of door closers ranging from surface mounted and concealed closers as well as security closers used in prisons and correctional facilities. Currently, the company has over 35 different series of closers and many other door hardware products including pivots and hinge guards.

So now you know how the first door check was invented and a little about LCN. Lets look at how simple the 1371 Quest series closer is to install ([see photograph 1](#)).

The Quest series is reportedly the quickest door closer to install that is on the market. They say that with just a little practice, a professional installer can mount the Quest in less than 7 minutes. The question is, can I do it?

There are three steps to the installation process.

1. Apply the "peel and stick" template to the door and frame.
2. Mount the unique, patented Rapidor® bracket.
3. Install the closer and arm assembly.

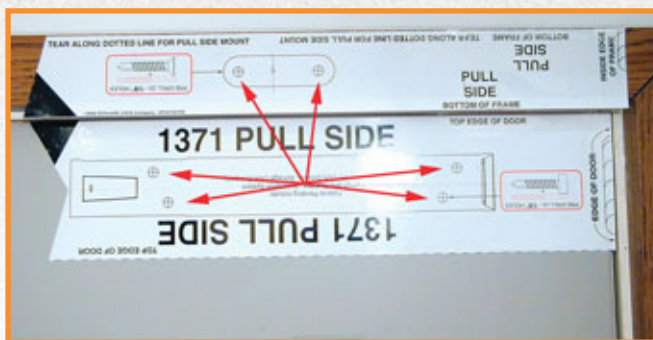
An additional step I took was to attach the instructions to the door. LCN already had this one worked out. The back of the direction sheet has a peel and stick strip at the top. You can peel it and stick it to the door while

you are working ([see photograph 2](#)). When finished, you can peel it off and throw it away.

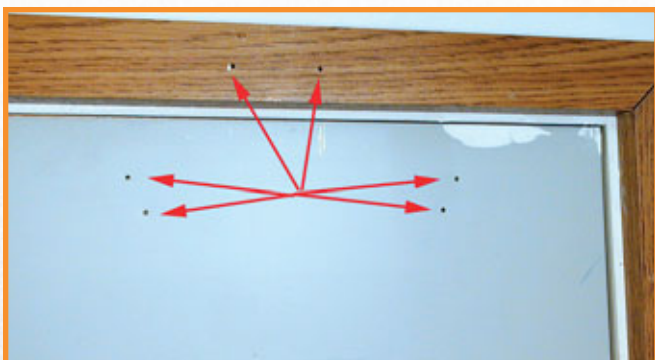
Speaking of peel and stick, there are two templates that are designed to stick to the door ([see photograph 3](#)). One is for the arm and the other for the closer. The template set has two options. One option is for a pull side mount or a push side mount. The other option is for right and left-hand swing. You are covered all the way around. You just pick a template, align it as indicated and stick it to the door.

All six holes used for mounting, can be perfectly located with these two templates ([see photograph 4](#)). At this point you can either center punch the locations for the six holes, or just jump right in with an 1/8" bit to pre-drill the holes. The closer comes standard with self-tapping screws for a hollow metal door. Wood screws are available upon request. Pre-drilling is recommended for installation on both wood and metal doors.

With the holes pre-drilled, the mounting bracket can be attached to the door ([see photograph 5](#)). One nice feature of the mounting bracket is the addition of a piece of double-sided tape on the back. The idea is that the tape will hold the bracket in place while it is permanently attached to the door ([see photograph 6](#)). With the bracket in place, secure with the self-tapping, number three (not number two) Phillips



4. The peel and stick adhesive on the template works great.



5. All six holes are perfectly pre drilled by using the locations on the template.

head screws (*see photograph 7*). Sounds simple, but has anyone else thought of it?

The closer is slipped onto the mounting bracket and held in place with a retainer screw (*see photograph 8*). At this point I am only about three minutes into the installation (*see photograph 9*). It has been very simple so far. Note, I said so far.

The next step is to install the arm assembly onto the door frame using the two holes that I pre drilled only a moment ago. Does anyone see a potential problem at this point? I didn't, until I started to enlarge the pre drilled holes for my wood screws. The problem is there wasn't any wood to pre drill. Only the molding was there. You would never run into this problem



6. You don't need to hold the bracket in place, there is a piece of double-sided tape that does this for you.



7. For metal doors, self-tapping screws are provided.



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with a metal door frame, however I discovered a gap between the wooden door frame and the wood that surrounds the frame.

I have had this same problem in the past and you would think I would learn from experience, but I don't! I just keep on poking holes where they don't belong. The template location was the ideal place for the arm of the door closer. However, it was not the proper location for my door. No big deal, this is an easy problem to fix by just raising the mounting location for the arm by about a half of an inch. I also angled the wood screws slightly upward to ensure they would not bust out when I drove them home.

If I had thought, I would have made only one 1/8" hole for the arm assembly and probed it with a wire to see if there was anything behind the molding. The bad news is that I have two extra holes in the molding that I have to fill (*see photograph 10*). The

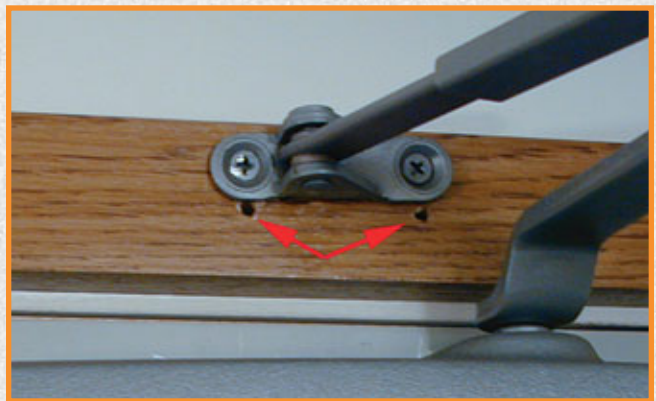
good news is that the arm assembly has enough tolerance that raising it a half-inch will not cause any binding (*see photographs 11*). The fact is, the arm mounting position can be raised well over an inch and still not bind (*see photograph 12*).

After the arm assembly is attached to the door closer and the door frame, it has to be pre-loaded. Pre-loading is just putting a little tension on the system to be sure it doesn't run out of "umph" before the door is fully closed.

Photograph 13, shows the position of the arm before pre-loading. At this point the adjustment screw has not been tightened on the arm assembly. By grabbing the arm and pulling it so the portion of the arm that is mounted to the



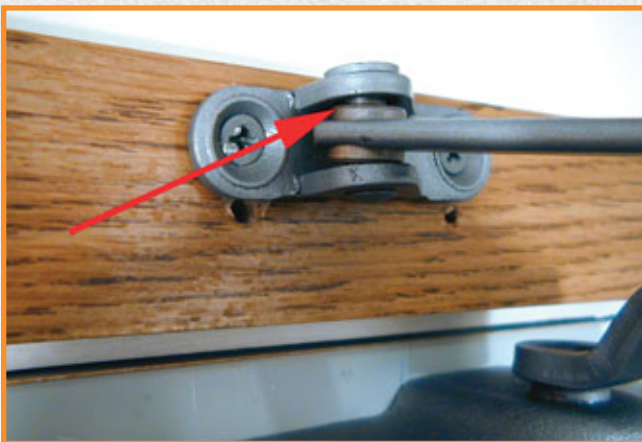
8. The door closer slides into the bracket and one retainer screw locks everything in place.



10. There was no wood behind the molding at the specified location. Simply raising the arm assembly a half-inch corrected the problem.



9. With the door closer mounted it is time to move on to the arm assembly.



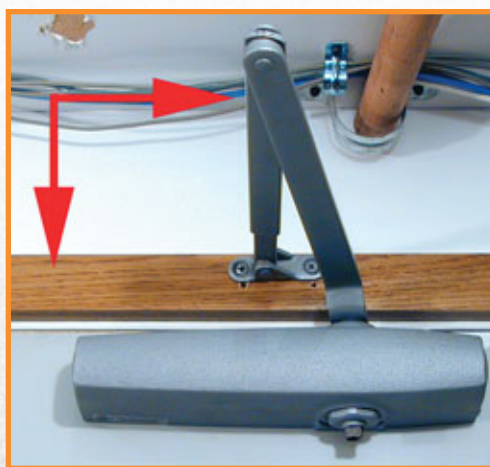
11. Relocating the mounting position for the arm will not cause any binding.



12. Another point in the arm assembly that has a lot of tolerance.



13. The arm in a relaxed position when it is first installed.



14. Here is the proper position for pre loading.

door frame is at a 90 degree angle to the door frame, this will be the perfect amount of pre-loading (see photograph 14). Tighten the locking screw on the arm assembly and the job is almost complete (see photograph 15).

Even with my mistake, I only have around ten minutes into the installation so far. Now it is time to make any necessary adjustments to the closer. There are four adjustments that can be made. There is the:

1. Spring power.
2. Backcheck.
3. Main speed.
4. Latch speed.

There are two things to remember about a door closer. The spring is power and the hydraulics is your control. The spring on the 1371 is adjustable from a #1 setting to a #5 setting. There is an Allen head adjustment that is turned counter clockwise to weaken or clockwise to strengthen the spring power (see photograph 16).

On the same end of the closer is the backcheck adjustment (see photograph 17). The backcheck has no affect on the door until it gets close to its wide open point. The idea with the backcheck is to slow the opening of the door before it reaches its wide open position.

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Why? Well, it is very similar to a screen door chain. I am sure you have all seen the chains used on screen doors that have a heavy spring at the end of them. The spring acts like a little shock absorber. When a screen door reaches the end of its chain after being blown from your hand when opened, there is a lot less stress placed on all of the door components if there is a cushion at the end instead of a sudden stop. Remember, its not the fall that hurts, it's the sudden stop at the bottom. The backcheck acts like a cushion or shock absorber to reduce the amount of stress placed on the door components when the door is abused.

The two speed adjustments on the other end of the closer are for the main speed during closing and the latch speed during closing (*see photograph 18*). A good average for closing time is 5 to 7 seconds from a 90-degree open position until closed.

Both the latch speed and main speed are adjusted with an Allen wrench. By turning clockwise, you will slow the closing process and by turning counter clockwise you will speed up the closing process.

After any needed adjustments are made, all that is left is to snap on the end covers and attach the bottom cover (*see photograph 19*). My installation time was right at 15-minutes. This was my first time with this model from LCN. I would bet that my next

install will easily be under 10 minutes. Except for my oversight with the wooden frame, everything went very smoothly.

If you have ever wondered what the inside of a door closer looks like, be sure to read "Inside the Quest 1371" next month. When I finish with this thing, its own mother won't recognize it! Until then, enjoy life. You only get one!

For more information about the Quest series or any other closers from LCN, contact: LCN Division Ingersoll-Rand Company P.O. Box 100 Princeton, IL 61356-0100. Phone: 800/526-2400; Fax: 800/248-1460. In Canada contact: Ingersoll-Rand Architectural Hardware 1076 Lakeshore Rd. East Mississauga, Ontario L5E-1E4. Phone: 905/278-6128; Fax: 905/278-1413. For those on the Internet go to www.lcnclosers.com. Circle 261 on Rapid Reply.

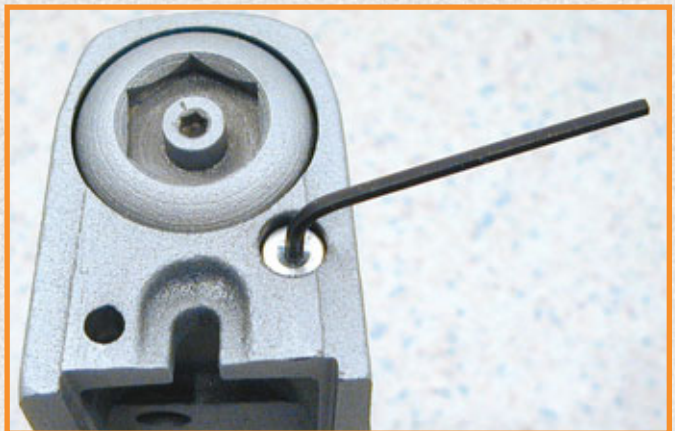
RL



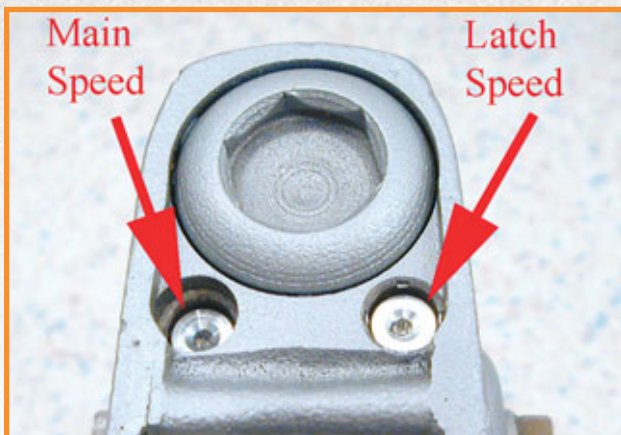
15. After properly positioning the arm, tighten the locking screw.



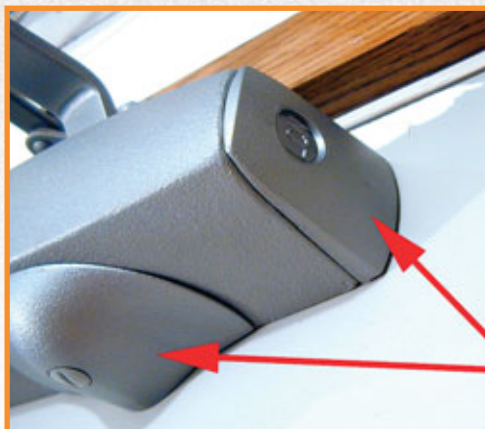
16. The spring can be adjusted from a #1 to a #5 power.



17. The backcheck adjustment is on the same end as the spring adjustment.



18. The adjustments for the main speed and latch speed are on the opposite end of the closer.



19. Snap the end cover in place and attach the bottom cover and the job is finished.



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Circle 235 on Rapid Reply

Diabolical Drafty LeFEBURE Depository

by Dale W. Libby, CMS



Let me introduce you to a good friend. His name is Mark G. No, I do not mean Marc Goldberg, although Marc Goldberg is also my friend. Mark G. is a young up and coming safe and vault man. His two-man company, Mobile Vault Service, works in the greater Chicagoland area and has many banks for customers. When I want to see equipment that I usually do not service, I tag along with Mark. He and Jose work on equipment that I have never seen and will never service. A large part of his work is also Safe Deposit opening, repair and rotation. You will be hearing more from Mark G. in the future.

The patient today was a diabolical drafty night depository made by LeFEBURE. It is shown in **photograph 1**. What you cannot really see is that the safe door is taped shut with clear packaging tape. When the wind blows out of the west, it comes right through the outside depository slots and freezes the women inside the cubicle. We were there to open the unit, it



1. LeFEBURE Inside night depository door. The lock is a new 33E ComboGard by LaGard. The door is taped shut with clear packaging tape.



2. Inside view of open door. Lock is mounted Vertical Down (VD).

had ceased functioning. The lock in question was a 33E ComboGard by LaGard. With this unit, the combination is punched into the keypad and then the entire keypad is rotated right (clockwise) to withdraw the lock bolt. The beeps made by the keypad were strange sounding. We tried to power the unit with a 9-volt battery on the keypad, but this did not work. The cold air might have affected the lock in an adverse way.

Photograph 2, shows the inside of an exact safe door. The lock is mounted Vertical Down (VD). By looking at the front of the safe door, the dial is too close to the opening handle for the lock to be mounted horizontal left or right. The only other choices are VD or VU. LeFEBURE doors usually have the lock mounted VD. In most cases, Mark tries to drill these malfunctioning units open from the side of the unit. In this case, the side of the safe was not available because of a cabinet wall and a large adjacent cabinet. Since it was connected to a night depository outside unit, it could not be moved from the wall.

Continued on page 58



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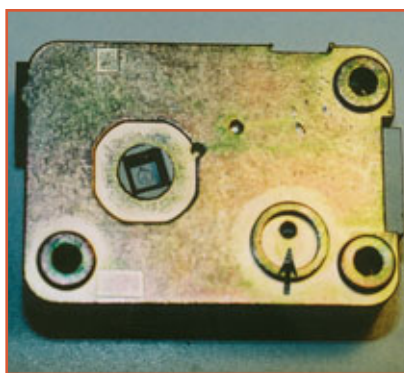
Circle 206 on Rapid Reply

LeFEBURE is famous for using massive ball bearing hardplate to protect the combination lock and the relock mechanism. We did not look forward to drilling this diabolical hardplate, but we had a new secret weapon. The new weapon is the T7 template from StrongArm Tools (www.strongarmdrills.com). It was redesigned by Joe Cortie and our own Dave McOmie. The rest of the story is rather academic.

The first thing we had to do was to determine if the ComboGard was new or old. This was easy on this safe. If the date printed on the board is prior to January 1997, then the lock is the old style, otherwise it is the newer style as we have on this unit. We removed the keypad in the Dale Libby way by peeling off the layers and checked the date on the printed circuit (PC) board and it was a new model ComboGard.

The importance of knowing if the lock is old or new is that the drill point is much different for each lock. Strangely enough, the new lock is cast for both the old and newer style configurations of the solenoid mechanism. In the old style, the solenoid reacts directly on the lock bolt. The newer style adds a spring-loaded wedge shape of metal. When the solenoid is activated inward, it allows the wedge to move out of the way of the bolt as the dial is turned. It's a much stronger configuration.

What happens if the dial of the ComboGard has been punched off and missing? Is there a way to tell the difference? Yes. Just look down the spindle hole and see if you see a raised circular pad on the bottom of the lock. The purpose of that circular pad is to house an optional hardplate disk, to thwart a drill attack in that location. In most cases it will not be present, because it is not

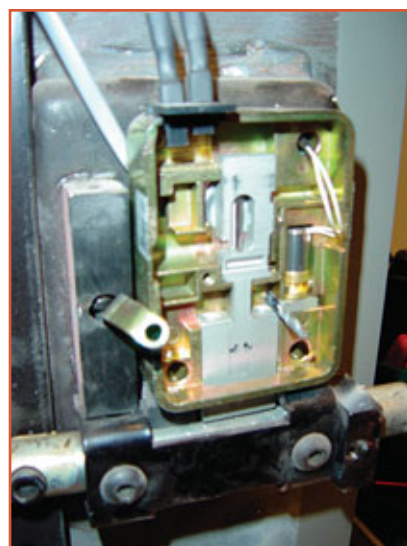


3. Back of the new 33E. The $\frac{1}{8}$ " drilled hole inside the raised circle pad is the opening location. See Arrow.

supplied with the lock and must be special ordered. With a good borescope you will be able to see this circular pad on the lock case. If the raised pad is there, then the lock is the newer style. You may have to remove the slotted post and the wire cable to get your borescope into the hole. You will also be able to see how the lock is mounted on the door. The pad is toward the bolt of the lock. This is shown in **photograph 3**.

The little hole in the bottom of the lock in photograph 3 shown by the small black arrow, is the hole that opened the lock. It is inside the raised pad on the bottom of the lock. The new T7 template gives the exact location of the end of the wedge that must be drilled off in order to let the bolt be withdrawn by turning the cam on the back of the lock at the bottom of the spindle hole.

Well, we attached the T7 template, our drill, and penetrated the steel with a $\frac{5}{16}$ " drill until it started chattering. This meant that we had hit the ball bearing matrix hardplate. I was prepared to sacrifice a Ball Buster carbide-penetrating tool to get through the hardplate. Mark had a better idea. He looked down the hole and decided that an extra long $\frac{1}{8}$ " drill bit just might penetrate between the ball bearings and be able to drill off the tip of the wedge bolt blocker in the lock. I was skeptical at first.

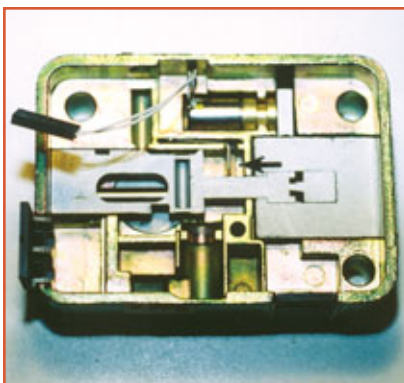


4. Trophy Shot with long $\frac{1}{8}$ " drill sticking out at end of locking wedge.

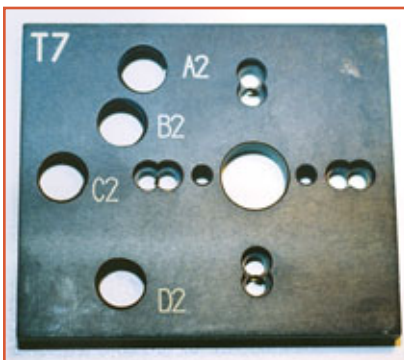
Mark free handed this hole between the ball bearings. The drill moved around a little, but it quickly penetrated the matrix and then went into the lock. He pulled out the drill and tried to rotate the opening cam on the back of the lock with a flat blade screwdriver. To our incredible surprise and great pleasure, the cam rotated effortlessly, the opening handle moved down and the door was open. We were both happily surprised at the ease of this previously untried procedure. **Photograph 4**, shows the trophy shot with the long drill bit sticking out from the lock at the exact place it should be.

Also to the left of the lock is the relock mechanism held in place with a piece of metal in the relock hole. This piece of metal is attached to the back cover of the 33E ComboGard lock by the relock case screw. This relocker is also protected by a ball bearing matrix.

Photograph 5, shows a couple of things. The arrow points to the relock spring under the bolt. If the lock is punched through the spindle hole, it will set off the relocker and lock the bolt in place. Also shown is the solenoid at the top of the lock with the tip of the wedge drilled off. This is the new style. There is a cast



5. Arrow points to relocker wire. Cutouts are cast for both old and new style 33E combination locks.



6. The T7 template from StrongArm.

depression in the bottom center of the lock. This was the placement of the older style solenoid that was pointed towards the center of the lock. The newer placement of the solenoid points towards the case mounting screw.

Finally our new secret weapon, the T7 template from StrongArm. This is shown in **photograph 6**. These are the lock positions it is designed to drill:

- ✗ Mosler Scope Hole
- ✗ New Style ComboGard
- ✗ Kaba-Mas B52 RH
- ✗ Kaba-Mas B52 LH
- ✗ AMSEC ESL 10/20

Mark replaced the combination lock with a new ComboGard after sealing up the drilled hole with a hardened safe pin. It's a great feeling when a never before opening procedure works as planned. That's one that will certainly be added to my bag of tricks.

Open, use new Templates, and Prosper! **INL**

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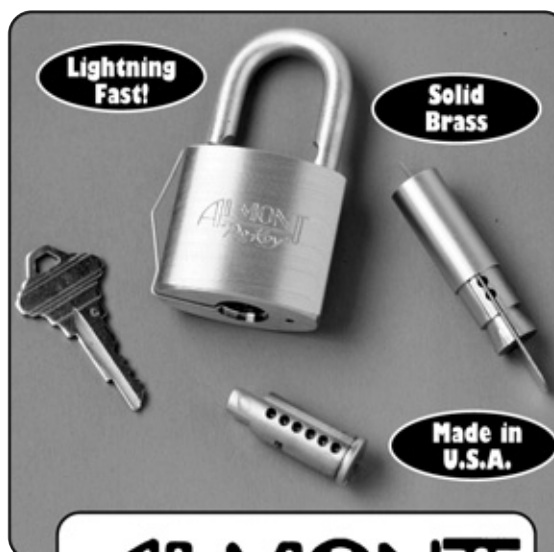
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| No. 5 | Segal 9 |
| No. 5A | Arrow |
| No. 6 | ILCO 1054K |
| No. 7 | Sargent "S" |
| No. 71 | Yale "GA" |
| No. 72 | Yale "GB" |
| No. 8 | Weiser |
| No. 9 | Weslock |
| No. 10 | Sargent "LA" |

Circle 205 on Rapid Reply

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C BEGINNER'S CORNER

The Powerful InstaCode Software



by
Ken Holmlund

Every once in a while I come upon a product that really excites me and I have to tell you about it. InstaCode Key Code Software from *The National Locksmith*, is just such a product (see photograph 1). I have used computer software for key codes for years and felt very comfortable with the results I got from them. That being said, I feel InstaCode is a step or two ahead. Let me walk you through the basics and you will see what I mean.

The first thing I noticed about this software is how quickly it loads. The first time you use it you will be prompted to fill in your information and how you want it to give you its information. That will include things like whether you want it to report in inches or metric, what code machine you will be using, which company's key blanks you will use most often,

2. In the upper right hand of the page is the input area.

graphic layouts, etc. This only takes a few minutes and can be changed if you desire later.

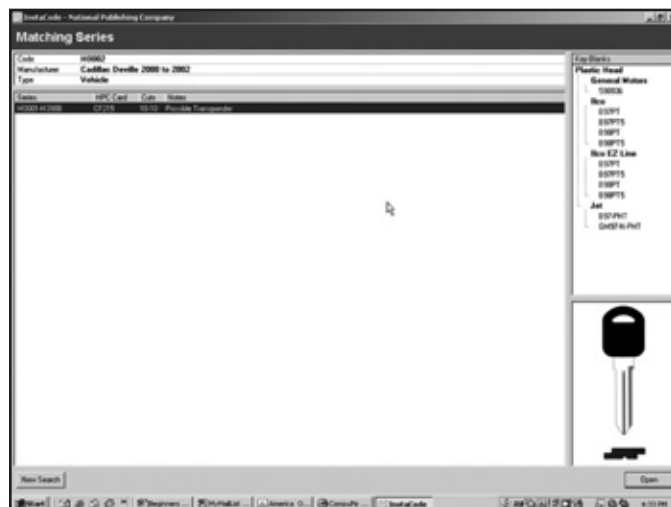
Once you have entered this information, you are ready to begin searching for codes. The search page is very straightforward and easy to use. In the upper right hand of the page is the input area. There

you can put in such info as code numbers, manufacturers, model, year for vehicles, and lock type (see photograph 2). The more information you enter the more concise the search can be. If you just enter the code you are looking for, you will get all the codes that match that information. Entering just the code and manufacturer can greatly decrease the number of matches you will get and will expedite the search. The search is started by hitting the enter key.

The results from your search are displayed on the screen very quickly. The information on this page will include the code you entered, the manufacturer if you entered that, all the series that match your criteria and the key blanks in the order you predetermined during the first startup (see photograph 3). In the lower right corner is a button that



1. InstaCode Key Code Software by W.H. Software.



3. The results from your search are displayed very quickly.

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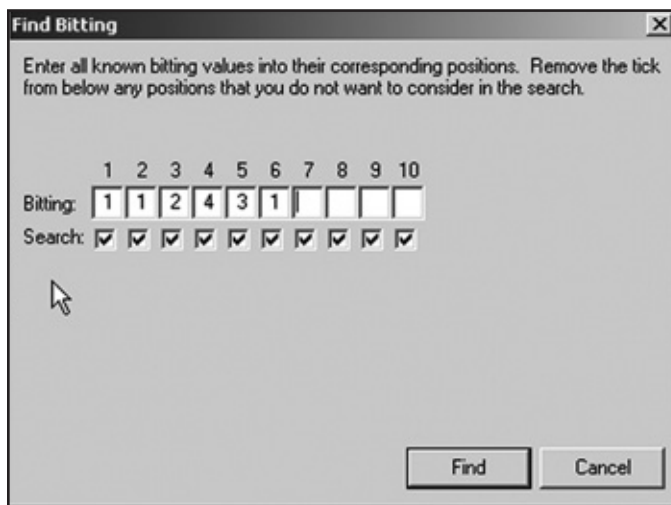


4. The series details page.

reads Open. Click it and the "Series Details" page will open (see *photograph 4*).

The new page will give you the details needed to cut the key, including the cuts, the key blanks used by that code, a series of buttons that will allow you to print the code or the code series if desired, a button to access a screen to record the clients information if you want, the profile of the key and a button to open a graphic of the cut key for comparison. Other features are available so lets take a look at them in more detail.

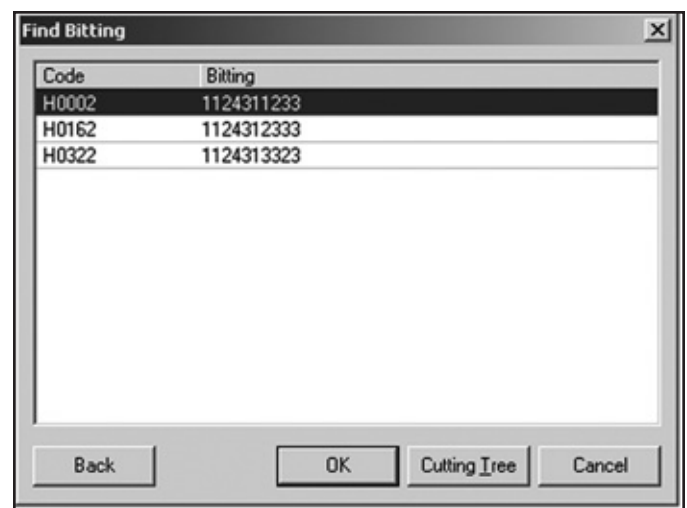
In the upper middle of the page is the information on the code you requested. Say you want to find another code in the same series. There is no need to return to the search page and start over again.



5. The find bittings page.

Just hit "New Code" and it will do the work for you. Enter the new code you need and you are ready to go.

Suppose you have the code series and maybe even some of the cuts of the key, but you do not know the code number for the key. In the same location is the "Find Bitting" button. Clicking this will bring up the window seen in *photograph 5*. Here you can enter the cuts you know and it will search all the possible bittings that are used with what you entered, and it will give you the code numbers for each possibility. Naturally, the more cuts you know the fewer possibilities you will be given to try out. Once the possibilities are shown, you will be given the option to have the software determine a cutting tree



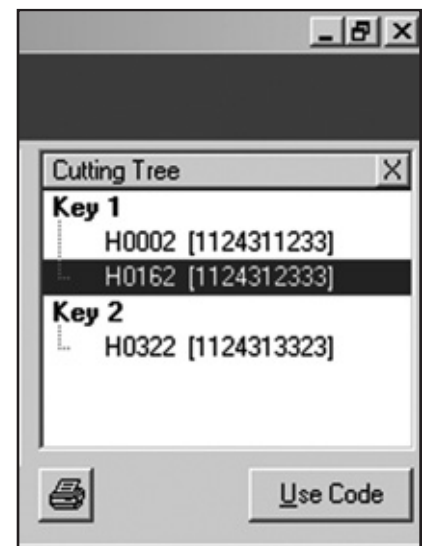
6. A cutting tree options.

for making the keys (see *photograph 6*). This is important because the computer will determine the order of cutting to make the best use of your blanks, thereby wasting the fewest possible.

Hitting the "Cutting Tree" button brings

up the screen seen in *photograph 7*. The first key in the tree is automatically selected and the cuts are displayed. It is just a matter of using your arrow keys to move the highlight to another code. Once on that code you can hit enter or you can click the "Use Code" button to get the information for cutting the key. If you are going to be away from the computer, or if you want a hard copy of the cutting tree, just click the copier key located at the bottom of the page and a copy will be made. If you want a graphic of the cut key, hit that button as well.

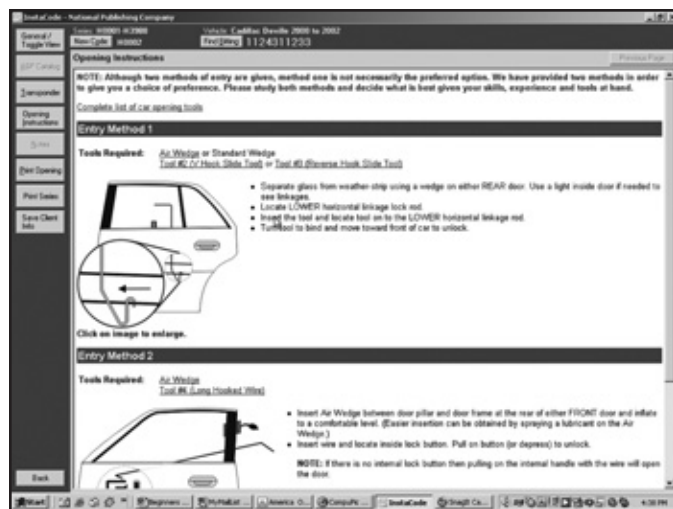
You also have the ability to switch between pages if you need to do so by hitting the "General/Toggle View" button, and in some cases the back button is also available.



7. The cutting tree screen.



8. The transponder info screen.



9. Vehicle opening options.

Should you have the need to replace a particular part, InstaCode has added the ASP catalog to the software. This is only available if you search by manufacturer, model and year of a vehicle. Many of the products will, when highlighted, display a small photo at the bottom of the screen to help you identify it. Click the "General" button to return to the series information.

How about if you are working on a transponder equipped vehicle? If the vehicle you have selected by searching for manufacturer and model has a transponder, the "Transponder" button will be enabled and you can get a wealth of information from it (see photograph 8.) Information on programming the transponder keys for the vehicle will be displayed and links to more information is just a click away. Use the Previous Page button to go backwards through the pages you have visited and the General button to return to the series information.

InstaCode can even show you the best way to open a vehicle by clicking the "Opening Instructions" button (see photograph 9). It will often give more than one option and will, sometimes give you insight into how to open the trunk if the keys are locked inside there. Having an extra insight into opening vehicles will never hurt and you might just find a better way to do the job.

The National Locksmith®




Guide To Motorcycles

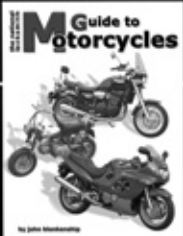


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If the notes button is enabled, additional information specific to the vehicle is available. Some examples of this information will include which wafers are used where and where the key code can possibly be found. Again, use the Previous Page button to go back through the pages you have viewed and the General button to return to the series information.

The “Print Code” and “Print Series” buttons are self-explanatory, except to say that there is an area to enter your company address and phone number if you want it displayed on the printout. Be aware that the license you agreed to when installing InstaCode limits the use of printout. Some high security series cannot be printed.

Clicking the “Save Client Info” button will yield the screen seen in *photograph 10*. You can fill in the fields you need. It can be later retrieved from the “Search Screen” by clicking the “My Client” button. To provide a degree of certainty that a call from your client to have another key is legitimate, you can record for them a password and ask to have it verified when later retrieving the client’s information. It doesn’t hurt to be cautious in this day and age.

When you entered the software for the first time you told the computer which code machine you will be using. The “Series Detail” screen will

indicate that information and additional information for your machine which is displayed in the lower left corner. Included will be such information as the cutter to use and the correct card if you are using a card machine.

One of the things that really got my interest is also available here. That is the ability to make a card for the 1200CMB code machine on my computer (*see photograph 11.*) Many times I have had to use a universal micrometer card to make keys for vehicles because I did not have the correct card and did not have time to get one. I sure don’t want to have every card available due to the cost and the fact that I will never have a need for many of them. With InstaCode, I can tell it to print a card and I will have an exact format to follow. The cards can be printed on plain paper, but if you are going to use it more than once, I would

| Spaces | | Depths | | Cutter: CW-1011 | | IC #: 163 | |
|--------|------|--------|------|-----------------|--|-------------|-------|
| mm | Inch | mm | Inch | Jaw: A | | Series | Alfa |
| 1 2635 | 1037 | 1 800 | 315 | | | H0001-H3988 | Y39 |
| 2 2400 | 945 | 2 735 | 289 | | | 0-8999 | Y11 |
| 3 2165 | 852 | 3 670 | 264 | | | 1-1988 | A68 |
| 4 1930 | 760 | 4 605 | 238 | | | 1-2000 | HL2 |
| 5 1695 | 667 | | | | | 1X-2000X | Y39 |
| 6 1460 | 575 | | | | | AA00-7T51 | A79C |
| 7 1225 | 482 | | | | | AA00-7T51 | A79C |
| 8 990 | 390 | | | | | AA00-7T51 | EX14B |
| 9 755 | 297 | | | | | 05000-06999 | Y39 |
| 10 520 | 205 | | | | | S000A-S711K | A79C |
| | | | | | | S000A-S711K | EX9B |

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11. HPC code card creation.

Save Client Information

Series: H0001-H3988
Mfg: Cadillac Deville 2000 to 2002
Code: H0002

Name: Phone:
Address: Notes:
 Password:

Make: Cadillac Licence Plate:
Model: Deville VIN:
Year: Color:

Transponder:
Trans Type:

10. The save client info page.

recommend either laminating the card or using a heavy paper. This feature alone sets the InstaCode software apart from others I have used.

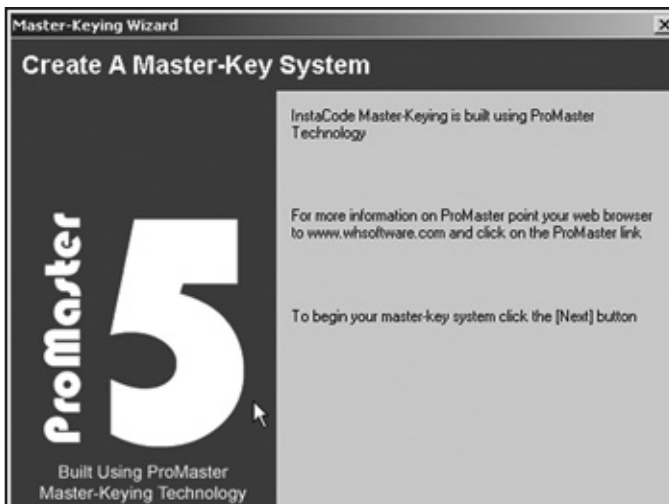
InstaCode has other fine features like cross reference

for key blanks with over 70,000 blanks listed and 34 after-market manufacturers. There are about 70 original manufacturers included, depth and space data and the ability to store your own notes. You can even make an entry to indicate the hook and location of the blank in your store or truck. A real timesaver!

Have a key number but don’t know the manufacturer? The “Identify Key” feature works wonderfully. Want to record your own code series? Click the “My Series” button on the Search Screen and a six-step wizard walks you through the process.

Have you had trouble making master-key systems, or would just like a little help to be sure it is accurate, InstaCode includes technology from ProMaster5 to help by clicking the “My Master-Key” button (*see photograph 12*). The job is done by a master-keying wizard and will follow the parameters you set for the system. Just follow the steps and the system will be done quickly and

precisely. If you choose to use solutions other than those proposed by the software, that is available and the software will adjust the system to compensate. You can save the final system and make hard copies for use in the field.

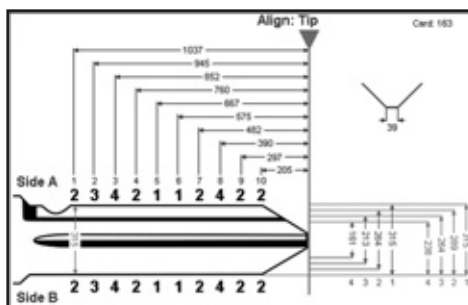


12. The master key helper.

The wizard can even print out key cutting charts and pinning charts to make your job easier. The reports can then be previewed on the screen before sending them to the printer.

I would be remiss if I didn't mention one more feature that I found very useful the first day I got this product. In the center of the "Series Details" screen, is the depth information for cutting the key, and a second set of depths are included (*see photograph 13*). These depths detail the distance from the bottom of one cut to the corresponding cut on the other side of the key. To me this is critical, because if you have a double-sided key, and you don't have an accurate point to measure one side from, how can you get a good reading on the cuts of the key? InstaCode has given me a very valuable tool to help determine the cuts on a double sided key that is either very worn or has been miscut. I bet you will use this feature more often than you realize. You will need a micrometer or similar tool to use it, but it will be a valuable tool to have in your toolbox.

Well, I have covered a lot of ground here and have not talked about all the features of this quality software made for locksmiths. There is a whole lot more to this software package,



13. The see details screen.

however, it would require the entire magazine to cover it all. Suffice it to say that this is an all-encompassing code software program at the top of its game. It is obvious that the W. H. Software Company has done their homework and has included many features in their product that is not found elsewhere.

I know the price of key code software is high and it seems like a major expenditure when you are just starting out, but I believe it will prove to be an investment in your future and the InstaCode software would be a very good choice. For more information contact:

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The Lighter Side

International Service, N'est-ce Pas?



by Sara Probasco

Dragging in a bit later than usual for supper one evening, Don was hanging up his jacket in the hall closet when he called out to me, "It's six forty-five. Do you know where my dinner is?"

"Busy day?" I asked, turning up the fire under his hamburger steak and slicing some onions over the top.

"You might say that. I thought I was going to have to bring in an interpreter, at one point," he said as he peeked over my shoulder to see what I was cooking.

His comment took me by surprise. We live fairly close to the Mexican border and have a number of customers who speak little or no English, but between a lifetime of speaking Tex-Mex and using his hands a lot when he talks, I've never known Don to have much trouble communicating. Besides, he's awfully good at Charades.

"Remember that hamburger place we came across when we were driving across New Mexico a few years back?" he asked, apparently changing the subject.

"You mean the gourmet hamburger shop that a retired chef from somewhere up East had opened?"

"Yeah," as I smiled, remembering.

We were on one of our rare vacation trips, driving across Texas and New Mexico, heading for Boulder, Colorado. Suddenly, we spied a freshly painted little house beside the road—the only one for

miles around—situated on flat, desert terrain literally in the middle of nowhere. Painted in large, bright lettering, the sign over the doorway beamed the owner's name and "Gourmet Hamburgers."

"I'd almost forgotten," I admitted. "Boy, those hamburgers were good."

"Except that you couldn't get just a plain, ordinary, lettuce-and-tomato, home-style burger at any price," Don grumbled.

"Well, of course not. He served only gourmet-style burgers. His signs all said so. Remember the beef patty smothered in sautéed onions and mushrooms with Swiss cheese melted on top that you ordered? I'll never forget my ground lamb patty with radish sprouts, hearts of palm, and Greek olives tossed in balsamic vinaigrette dressing with Feta cheese. And those home-made buns were to die for." My mouth began to water, just thinking about it.

"Actually, I was thinking about the 'Horny Toad International Airport' sign just next to the house," Don said.

As we heard it, somebody had managed to land a small, disabled plane on the highway in front of the burger shop, one day. After taxiing it around to the side of the house, the pilot was forced to leave it there for several weeks, waiting for parts and repairs. The chef finally grew weary of passers-by asking why the plane remained parked there, so he erected the "International Airport" sign. This attracted such favorable attention from some travel writers'

articles, that he decided to leave it there for the sake of tourism.

"What brought that to mind?" I asked Don.

"Oh, I had a sort of international incident myself, today. A fellow from Paris, France, on vacation, lost the key to his Ford Aerostar. He didn't speak much English, and we had a little trouble communicating."

"What in the world was somebody from Paris, France, doing here, in Uvalde, Texas?"

"He wasn't. Well, he was for a little while, but he was actually in Castroville. He just hitched a ride to Uvalde in search of a locksmith."

"That's over sixty miles. San Antonio would have been a whole lot closer."

Don shrugged. "Apparently, the guy who brought him here knew about us and didn't know who to recommend in San Antonio."

Don went on to say how he'd given the man a ride back to his car in Castroville, where his wife and two small sons were waiting at McDonald's. As nearly as Don could ascertain from the man's limited command of the English language, he lived and worked in Monterrey, Mexico, and they'd decided to see some of Texas while on vacation. They had stopped for breakfast at McDonald's in Castroville, where one of his pre-school age sons managed to flush their only key down the commode. It happened to be on the key-ring with the remote clicker.

As Don approached the vehicle, he noticed a sticker showing it was

monitored by a satellite air service. He tried to ask the Frenchman if he'd tried to contact them for assistance, but the language barrier created problems.

"No, no," the man finally responded as he gestured wildly with his hands. "Other." He pointed to the next car in the parking lot, an identical green Ford Aerostar. Don decided he'd stopped at the wrong vehicle.

Using an opener tool, Don managed to get the correct door open, which immediately set off the car's alarm system. Quickly, he reached in for the papers from the glove box, but could find no code number anywhere. The alarm screamed on.

Don tried to explain to the man that even with a proper key, if they couldn't turn off the alarm, chances were the key wouldn't start the ignition. He offered to make a key and give it a try, if the man wanted him to, but he'd have to charge him, whether it worked or not. The

customer agreed. Don just hoped the man had understood.

This was an eight-cut lock. He could cut the first six using the Determinator, though there was always a possibility even one or more of those would need to still be impressed.

Mentally crossing his fingers, Don gave it a try. Yes! The key turned the door lock. He entered the cuts on the chart. Then he checked the progression chart for possibilities on the last two cuts, which would allow the key to operate the ignition as well. Lady Luck smiled again. The first possibility he tried worked. The ignition turned.

Ya' done good! Don said to himself as he duplicated the cuts onto a transponder key.

Struggling to look nonchalant, he plugged in the NGS tool to program the key. After waiting the usual ten minutes for the machine to complete the process, he

unplugged the key from the ignition. Then he twiddled his thumbs for the required two minute wait before trying the key in the ignition and sending a happy Frenchman on his way.

"Everything worked like a charm" Don told me. "Slick as a whistle. With luck like that, I should have bought a lottery ticket."

"That's a great story," I admitted, "But there's one thing I don't understand. You mentioned the international aspects—the man being from Paris, living in Mexico, vacationing in Texas. Other than having some trouble communicating, couldn't this same thing have happened with anybody?"

"Sure," Don admitted.

"Then just what did the Frenchman contribute?"

Don smiled a big smile and said, "About three hundred dollars."

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BUSINESS BRIEFS

LA GARD Elevates Ken Fox To Executive VP

LA GARD, a division of Computerized Security Systems (CSS) and a leading manufacturer and distributor of electronic safe locks announced it has promoted Ken Fox to Executive Vice President.



Prior to his appointment, Fox served two years as Vice President of West Coast Operations, overseeing LA GARD's California facilities in Torrance and Costa Mesa, California.

He and his team have successfully driven new product development, and increased quality and operational innovations for LA GARD. In his new role, he will continue with these initiatives and oversee all of LA GARD sales.

"I am excited about the opportunity to lead a new management team," expressed Fox. "LA GARD has historically been known as an innovator in security and a leader in

the industry. We have high expectations for several new products we're launching this year, following three years of intensive development."

Fox added his team is particularly focused on its quality and on-time delivery efforts. "I am confident we will achieve our goal of establishing ourselves as the 'premier' provider of high security safe locking solutions."

Ken joined Masco in 1985. He has served in many administrative capacities gaining a broad business background. He has worked extremely close with key people throughout LA GARD, developing and honing competitive product ideas and market strategies to continue moving LA GARD forward.

"I am confident that Ken will continue to be a key factor in helping LA GARD achieve its full potential," CSS President Roger Carlson said.

Medeco Web-Based Interactive Demo

A free online interactive security demonstration from Medeco helps security dealers explain high-security locks to customers. The Interactive Security Solutions demonstration at www.medeco.com uses three dimensional moving graphics and narration to show how keys, cylinders and pins

interact in locks. The site's focus on locks for three distinct market segments—commercial, residential, and equipment—reflects Medeco's targeted audiences—business owners, homeowners, and original equipment manufacturers. The site's commercial- and residential-specific sections offer a variety of features, including a brief security quiz to help owners assess their buildings' security risks and a key program selector that customers can use to select the Medeco option that best suits their application.

For commercial applications, an illustrated guide to a master key system demonstrates how master keys work in theory, and how understanding the five steps of the key control cycle can provide increased protection. Additionally, a downloadable key record card enables key owners to track who receives keys. Original equipment manufacturers use the interactive demo's cam lock selector to choose which cam lock is suitable for their application, and to learn more about the NEXGEN System—providing vendors with the ability to program access to their machines and monitor collection activity.

Seliber Joins DORMA as Product Manager

Lloyd Seliber has joined DORMA Architectural Hardware as the Key Systems Product Manager, to help customers optimize their use of DORMA's complete line of commercial locksets. His responsibilities at DORMA will include establishing the key systems and key records processes in support of their product line.

Introduced in April 2003, the lock line offers mortise locks, cylindrical locks as well as deadbolts for commercial applications. The new locks complete a high quality door hardware package to meet the control and security needs of virtually any commercial or institutional door. Seliber holds CDT certification from CSI and the CML certification from ALOA.

Hirsch Expands Sales Organization

Hirsch Electronics has appointed John Coker to the newly created position of Director of North American Sales. Mr. Coker will be responsible for directing the team of Hirsch regional managers as well as assisting with the management and development of strategic end users, dealers and system integrators. Mr. Coker's career in the security industry spans more than twenty-five years. **ENR**

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4th Prize

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5th Prize

LaGard "SmartGard"



6th Prize

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*Arrow 400 Series Alarmed
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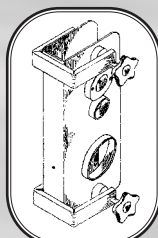
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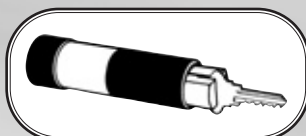
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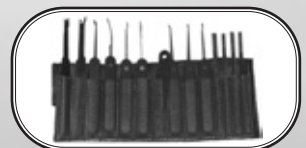
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Send a tip on how to do any aspect of locksmithing. Certainly, you have a favorite way of doing something that you would like to share with other locksmiths. Write your tip down and send it to:

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Each tip submitted must include your full name, street address (no P.O. Box numbers), city, state, zip code, phone number, fax number and e-mail address. **When sending tips via e-mail make sure to include complete address and phone.**

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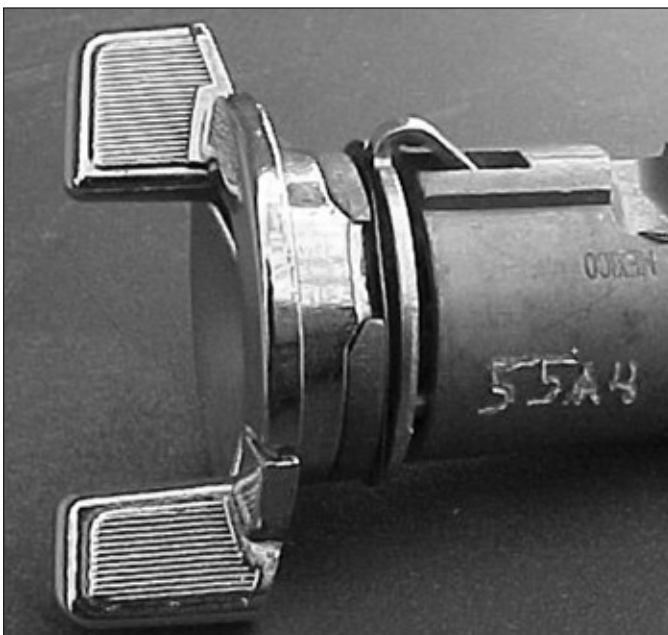
LAB Winner:

Replace The Cylinder Codes When You Replace the Cylinder

Many times we as locksmiths go out to generate keys for cars. In most cases the lock cylinder will have the code on it (glove box, passenger door, trunk lock, or ignition). Then there comes the time when the O.E.M. cylinder has been changed, and there is no code on the replacement cylinder.

If you do a lot of work and you run into this quite a bit like I do—simply buy an electric engraver, and engrave the code on the lock cylinder with it (*see photograph 1*). These engravers can be found almost anywhere. Harbor Freight, E-Bay or the flea market often have them for under \$15.00.

This will help you if you run into that vehicle again, or possibly help another locksmith.



Photograph 1.

I'm quite sure we all know the benefit of working behind a competent locksmith, or even yourself. This works for me, and will work for you.

Jonathan Muhammad
Georgia



WEDGE CO WINNER: Quick FireKing File Cabinet Opening

I received a call from a large auto parts factory about 2 weeks ago. They had 500 paychecks locked in the safe and it was 10 am on Friday morning—and they couldn't get the safe open.

Upon arrival the safe was a FireKing 3 drawer fireproof cabinet, with a Medeco lock. The drive lug apparently had broken and would not retract the locking lug.

Before getting out the drill to start on this lock, here's a way I've found to open this high-security lock. On these units (at least the ones I worked on) the locking lug is not at the 12 or 6 o'clock position as in a normal file cabinet lock. It is at the 9 o'clock position; and this will help you get the unit open rather quickly.

Simply attach a safe deposit nose puller by threading the screw into the keyway. Pull the lock forward slowly and keep trying the drawer until it opens. This only requires a slight amount of pulling movement. It will not damage the plastic sleeve significantly and you can always replace that when you replace the lock. Also, the

small amount of movement required to open the drawer this way will not deface or buckle the face of the cabinet around the area of the lock.

After opening the drawer, remove the lock by pushing it out the rear and replace it with another.

Glen S. Phillips, CPL
Illinois



STRATTEC WINNER: Changing a Von Duprin 22 Function

A customer requested that I provide them with a night latch function on an entry door that had a Von Duprin 22 series outside trim lever on it. Repeated calls to my suppliers and others netted me the information that Von Duprin did not make this trim in a night latch function.

The hardware on the door was in good condition and although new trim would have been expensive, to convert the door to another trim (or type of device) would have been very costly, and the trim would not have matched the overall trim on the doors of the building.

Since a solution was needed, I decided to see if I could find a simple and practical way to convert the existing trim to a night latch function, without compromising the security of the door.

Here's my solution:

I mounted a Corbin mortise cylinder tailpiece upside down on the mortise cylinder as can be seen in the *photograph 2*. At first the key operated a little on the rough side when I tried to withdrawal the latch.

Using a round file, I opened up the indentation on the tailpiece so that the trim actuator seated more precisely in between the center leaf of the tailpiece and the outer left (looking from the



Photograph 2.

front of the lock) leaf. That modification allowed the key to work smoothly.

The key turns about 20 degrees and pulls the trim lock works into the unlocked position. The short side of the tailpiece

traps the key from going any further. The person entering through the door then has a free hand to rotate the lever and pull the door open. When they remove the key the lever is pushed back to the locked position by the center leaf of the tailpiece, which also prevents the key from rotating any further.

This modification has been in operation on a very high traffic door for about two months now. So far it has not given the first sign of failure or operational problems.

*Mark Rankin
California*



**HPC WINNER:
One-way Screw
Remover Tip**

My tip is from an accidental discovery that I have not yet

seen as a previous entry in the tips section of *The National Locksmith* magazine. What a great magazine it is!

Anyway, here's my tip:

One-way, or security screws are being used in nearly all window locks (as well as other mechanisms) sold and installed by Australian locksmiths. To do their job properly, these screws are made to be difficult to remove without the aid of a special tool.

However, if you were to grind the cutting tip off of a quarter-inch drill bit so that the flukes of the drill are flat, you have taken the first step to making yourself a universal security screw remover.

With the cutting tip ground flat, the bit is transformed into the perfect shaped tool to put into a drill chuck and remove one way screws—after you set the drill in reverse of course.

The web of the drill tip, once flattened, fits perfectly into the head of the screw and being High Speed Steel, the bit is hard



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enough to bite in to the somewhat softer screw head. This is especially handy when removing old locks for replacement etc. I hope this tip can help somebody somewhere at least, and maybe they won't curse the fact that they just broke that new drill bit, but rather created a new and very handy tool.

*Corry Glanville
Australia*



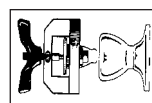
**SARGENT &
GREENLEAF
WINNER:
Lock Down
Your Van!**

That hockey puck lock-style lock is fine for the back doors of my service vehicle, but I never wanted to put one on the sliding door of my van. It takes a little more effort to use, but I've found a new use for a steering wheel lock. It can be used to secure the slider from the inside.

Most cargo vans have many access ports (holes) in the interior skin of the walls and door. Simply insert one end of the steering wheel lock into the fixed wall, the other end into a hole in the door. Once locked in place, the Club will hold the sliding door securely fastened.

This method is great when parking your van in high-risk areas. It also provides extra security when your van is in for service without the need to rekey the slider.

*Steve Zemba
California*



**A-1 SECURITY
PRODUCTS
WINNER:
GM 6-cut Key
Generation Tip**

When a customer brings in a GM 6-cut lock for us to make a key for, I was taught to totally disassemble the lock down to the wafers, measure the wafers or match them up with the new wafers in our 3 in 1 kit.

Removing the spring retaining cap can be a big hassle, as they have most likely been there for many years and often have a tendency to break. However, all of that is not necessary.

After removing the face cap, dust shutter, and springs; I then take the plug out of the shell. Sometimes you have to drill a hole to get to the sidebar, then apply pressure to the sidebar with your finger and rake the wafers to get the sidebar to drop. When it does (it's flush with the side of the plug) you can see the wafers from the top of the plug if you look beside the spring retainer cap.

If you know that a number one cut is almost right at the top of the plug, nearly even with it but not quite, then you can also tell that the deeper wafers would most likely be a four or a five.



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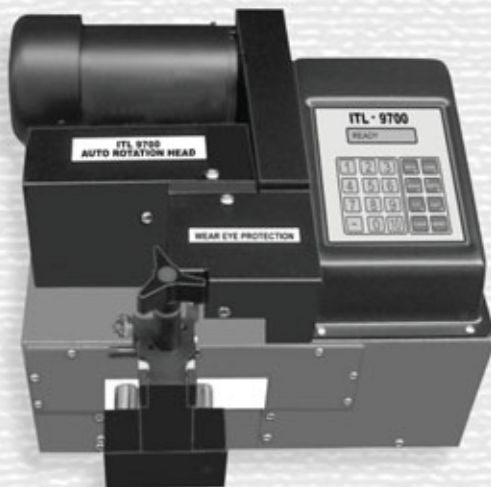
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Obviously, cut what you believe to be a five, to a four, just in case you are wrong, then you can cut deeper if needed.

Through a simple process of elimination you can have a working key within ten minutes. I have done this twice in the last two weeks, and the second time I had a working key with one blank, only needing to deepen my number three cuts to fours.

After you have generated a working key, simply reassemble the cylinder and replace.

*Jerry Goddard
Indiana*

Editor's Note: Your tip—although it might be “old hat” for some of the seasoned locksmiths here, is as valid today as it was when many of us older locksmiths discovered how much time we could save by reading GM wafers in the old 6-cut ignitions. Thanks for bringing back a workable, still valid and solid locksmith procedure.

E-MAIL YOUR TIPS AND WIN! Natllock@aol.com



ILCO WINNER:
**Powerful
Power Source**

I bought a portable battery jumper kit (you know the kind with the cables and power supply that you plug in to charge up) and have found it to be a truly versatile and useful tool. My primary use of this device is for when I'm using my PRO-LOK 12-Volt Halogen inspection light. Mine has a cigarette lighter adapter with it.

The problem is that I could not get close enough to the car I was working on, if the light was plugged into my van, or I had trouble with the cord being underfoot.

Now, I simply hook my light up to my portable battery pack and unreel just enough cord to do the job. I have made a wire holder that keeps the cord out of my way. I simply used a grooved wedge to hold the light and an ordinary suction cup with a hook on it that holds the device to the window.

I have found the portable battery pack a real lifesaver. I've used it about twenty-five times so far to run my inspection light. I've used it for short runs on other battery operated power tools as well.

*Bob Roman
Maryland*



KEEDEKX WINNER:
**Slick BIC Trick for
Ford 8-cut Ignitions**

In your March 2004 magazine, there is an article about recoding a Ford 8-cut wafer ignition

Continued on page 92

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Circle 228 on Rapid Reply

Continued from page 90

cylinder. I have worked for Ford dealerships for many years while learning the locksmith business and have had to recode hundreds of these cylinders.

The procedure given suggests using a 1/16" nail to push down the ball. That's a good idea, and I can tell you that it will definitely work, however, I think that I have a better way to "seat" the ball and I never have to search through my toolbox to find a nail.

I simply reach in my shirt pocket, grab my trusty BIC click pen and place the end of the pen over the ball and spring.

With the point of the cartridge retracted into the pen, it's a perfect fit and helps hold the ball securely in place when turning the cylinder. This little trick has helped me many times over the years and saved me a lot of time searching for balls that went flying into space!

Ralph McGee
Colorado



TECH TRAIN
WINNER:
Door Opening Trick

One evening I was called to open a store. An employee had taken the trash out and the door locked after her.

No matter how I tried; I couldn't pick the lock to get the door open. Before getting the electric drill out, I decided to try something else. There was a large gap between the

doors so I got out an auto-opening tool with a large loop on one end. I slipped the tool in the gap between the doors, grabbed the bar of the panic device and gave it a pull. The door opened.

This is something you can try if you're in the same situation. I later talked to the manager of the store a few days later and informed him that the gap must be covered with a shield.

Kenneth Novey CRL
Iowa



SIEVEKING
PRODUCTS WINNER:
Trunk Opening Trick for Older GM's

When locked out of an older GM trunk (1960, 1970, etc.), and the lock is damaged, you can gain access to the interior of the trunk through the access (actually a drain) hole on the bottom of the trunk floor. Simply push up the plate, it's attached with undercoating and two tabs.

This will allow you (if the trunk's not full of junk or luggage) to access the latching mechanism. I have unscrewed many of these latches with a ratchet and socket. I have also used a large screwdriver to flip the latch on some models.

I know these vehicles are becoming more and more scarce, but there are still quite a few of them on the road. Don't forget that you can also pop the facecap off many older model

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GM trunk cylinders, drill a small hole next to the sidebar, use a probe to put pressure on the sidebar and pick the lock. Of course, that means replacing the dust cover and facecap.

Brad McKenzie
Ohio

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PRODUCTS
WINNER:

Open Clubs Without Breaking

If I have learned anything about picking, I find the biggest obstacle on nearly every picking job is getting the tension wrench to stay where you want it to stay. It seems that no matter where you place the tension wrench, it often slips just when you're certain you've got the lock ready to open.

I found this particularly true when trying to pick steering wheel locks. However, I believe I've found an easier way of picking those difficult to pick locks without damaging the lock or the steering wheel, and without looking like I'm a one-man wrecking crew using a breaking tool to remove a steering wheel lock.

Continued on page 94



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Please don't misunderstand me. I would still suggest that you have a breaking device or other backup available for those stubborn locks that simply refuse to budge when you're trying to pick them. I will say that since I've tried this method, I have not, so far, found any Club (either the older style or the newer style with the "X" keyway) that would not open within five minutes!

Here's how I do it.

I drill two small ($1/16"$), shallow holes one on each side of the keyway, or in case of cross keyway, between cross openings. Drill one hole on each side of the center. I insert a tweezers type tension wrench in the holes and apply light pressure with a double ball picking tool. I rake the plug a few times on each side of cross keyway, or upper and lower wafers in the original club. Then, I increase the pressure and rake it again. The cylinder will

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usually turn with medium to light-heavy pressure, but I always make it a point to start with light turning pressure and work up.

This drill-a-hole technique works well for me on residential locks too, but with different picking tools. Anytime the keyway is obstructed, lock is upside down or any other cause that makes the lock harder to pick. So, just before I give up on any lock and am ready to drill out the plug (and destroy the lock); I give this technique a chance. Try it. I think you will find it an acceptable method of opening the more difficult locks.

*Boban Klasnikov
Pennsylvania*



**LAGARD WINNER:
Automatic
Center Punch
Improvement**

I frequently use a spring-loaded center punch to loosen tight one-way security screws, but the hardened screws quickly flatten the point. Masonry nails are made of a very hard metal and I tried replacing the tip of the punch with a short masonry nail after giving it a quick sharpening on my grinding wheel.

I was surprised and happy to find that the nail was a drop-in replacement, requiring no modifications at all. You might need to grind the shaft of the nail a little smaller for some makes and models of punches, but I didn't need to do anything other than sharpen it, and the hardened nail stays sharp far longer than the original bit in the center punch.

*Ted Swirsky
New Jersey*

Dave McOmie on Lift-Out Round Doors

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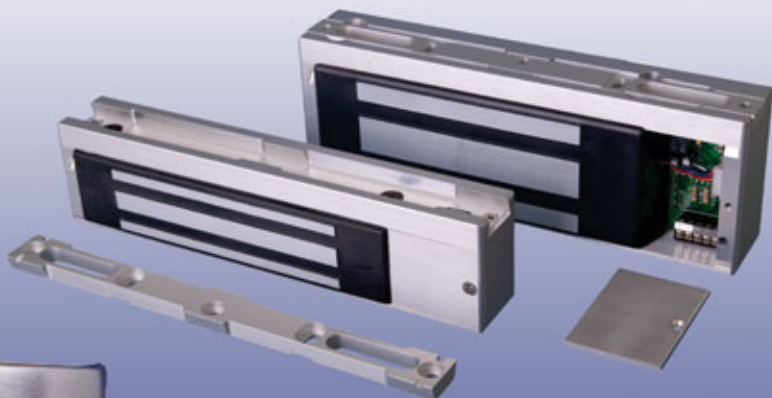
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TEST DRIVE

I-Core Drill Jig by Peterson Tools



THE NEED:

There are several reasons why an IC core cylinder cannot be removed from a lock. They include broken lugs, cracked cores, no control key, or one that can't be picked to the control sheer line.

We all know that the core must be removed to work on IC core locks, and drilling for the lug or pins freehand can cause damage to the lock housing. Some locksmiths prefer to drill to remove the pins and fishing the retainer lug to remove the core. Some prefer drilling for the lug and hoping they are not off by the small amount that will cause the bit to drill into the pins and destroy any chance to decode the core and make a control key. Either way leaves a lot to be desired.

THE ANSWER:

Ken Persson, from Peterson Locksmith Tools has found a better answer. He has invented the drill jig for small format I-Core locks. The tool is a simple looking hardened steel tool, but it has a high level of engineering in its development. Ken has invented this tool to drill off the locking lug without drilling into the pins. This enables you to decode the lock and make a control key to work the other cores in the system. The time saved will pay for the tool in just one use, not to mention the fact that you will not have to replace a large number of cores. This drill jig will allow you to do a more professional job.

USING THE TOOL:

Select a key blank that fits the core, but do not use a master blank because it does not have enough strength to do the job. Cut off the top of the bow to allow for a complete, and flat fit into the drilling jig.

Insert the altered blank into the jig loose, then insert the blank with the attached jig into the cylinder. Make certain the jig is flush with the surface of the core, then tighten the Allen set screws. Make sure there is not space between the tool and the core. Insert the longer of the two drill bits into your drill motor and measure the exterior portion of the bit to the measurements suggested in the tool instructions.

Drill the first hole into the I-Core using the top of the two holes on the left side of the keyway. Do not force the bit. Drill until you break through the back of the core. Now drill the second hole. When successful, remove the jig.

Now you will enlarge the holes by drilling them again with the larger bit and inspect to be sure you have accomplished breakthrough and no webbing remains. A stout pull should now be able to remove the core. You can now decode the lock and make the control core.

Included in the set is a more detailed instruction sheet that you will need to follow closely. After you have used the tool a couple of times, the instructions will be self-evident

IN SUMMARY:

DESCRIPTION: A jig for the removal of the core when other methods have failed. Drills for the locking lug and completely removes it for easy removal of the core.

PRICE: \$175.00 plus shipping and handling.

COMMENTS: A well-made tool that makes a nasty job almost fun. Results in a clean job that allows for decoding the core to make a control key if needed.

TEST DRIVE RESULTS: The jig takes error out of the equation and makes the job easy.

and your time to use the tool will be greatly reduced.

The instructions suggest using the drill bits he includes in the kit because they are somewhat longer than the ones usually supplied at hardware stores. Extra bits are available from Peterson Tools for your convenience.

TEST DRIVE RESULTS:

My need to drill a core was the result of a broken Falcon core. The older style cores tend to crack on the thin part of the outer shell, and removing the core gets to be a challenge. Since I was working with the C keyway, I prepped the key and followed the instructions to the letter.

Drilling the core cautiously was my goal, but I soon found out that the jig works so well that I did not need to use excessive caution. The jig takes error out of the equation and makes the job easy.

It took me about 8-minutes from start to finish to drill the first core. I would expect to be able to do the next one in less than 5 minutes. Since the core was already destroyed, I did not damage anything that did not have to be replaced anyway.

For more information contact:

Peterson Tool Manufacturing
P.O. Box 744

East Rochester, NY 14445

Phone: (585) 264-1199

Fax: (585) 586-0425

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